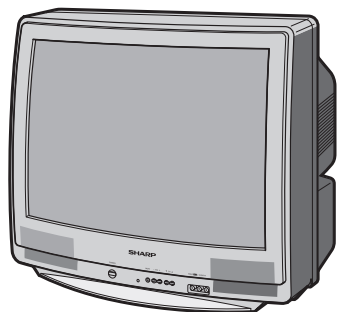


# SHARP

# SERVICE MANUAL



## COLOR TELEVISION

**Chassis No. GB-D7**

## MODEL

# 27SC26BQ

In the interests of user-safety (Required by safety regulations in some countries ) the set should be restored to its original condition and only parts identical to those specified should be used.

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## ELECTRICAL SPECIFICATIONS

POWER INPUT .....	120V AC, 60 Hz
POWER RATING .....	110W
PICTURE SIZE .....	2,193.5 cm <sup>2</sup> (339sq inch)
CONVERGENCE .....	Magnetic
SWEEP DEFLECTION .....	Magnetic
FOCUS .....	Hi-Bi-Potential Electrostatic
INTERMEDIATE FREQUENCIES	
Picture IF Carrier Frequency .....	45.75 MHz (Analog Terrestrial)
Sound IF Carrier Frequency .....	41.25 MHz (Analog Terrestrial)
Color Sub-Carrier Frequency .....	42.17 MHz (Analog Terrestrial)
IF Center Frequency .....	44 MHz (Digital Terrestrial)
	(Nominal)

**AUDIO POWER**  
**OUTPUT RATING** ..... 3.0W + 3.0W (at 10% distortion and  
Dual CH Operate)

**SPEAKER**  
**SIZE** ..... 12 x 6 cm oval (2 pcs.)  
**VOICE COIL IMPEDANCE** ..... 16 ohm at 400 Hz  
**ANTENNA INPUT IMPEDANCE**  
**VHF/UHF** ..... 75 ohm Unbalanced  
**TUNING RANGES**  
**VHF-Channels** ..... 2 thru 13  
**UHF-Channels** ..... 14 thru 69  
**CATV Channels** ..... 1 thru 125 (Analog)  
**CATV Channels** ..... 1 thru 135 (Digital)  
**Digital Terrestrial Broadcast (VHF/UHF)** ..... 2 thru 69  
(EIA, Channel Plan U.S.A.)

**Specifications are subject to change without prior notice.**

This document has been published to be used for after sales service only.

The contents are subject to change without notice.

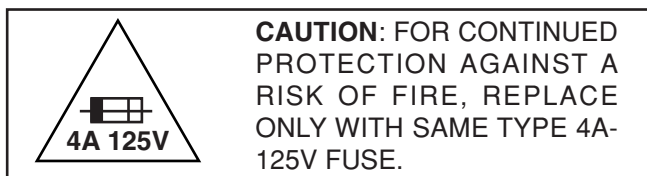
SHARP CORPORATION

## IMPORTANT SERVICE SAFETY PRECAUTION

- **Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:**

### WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.  
To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.



### SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

**When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the anode lead. (AC line cord should be disconnected from AC outlet.)**

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage anode completely.

### X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.  
It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high voltage meter.  
The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value -no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver.  
Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

# IMPORTANT SERVICE SAFETY PRECAUTION

## (Continued)

### BEFORE RETURNING THE RECEIVER

#### (Fire & Shock Hazard)

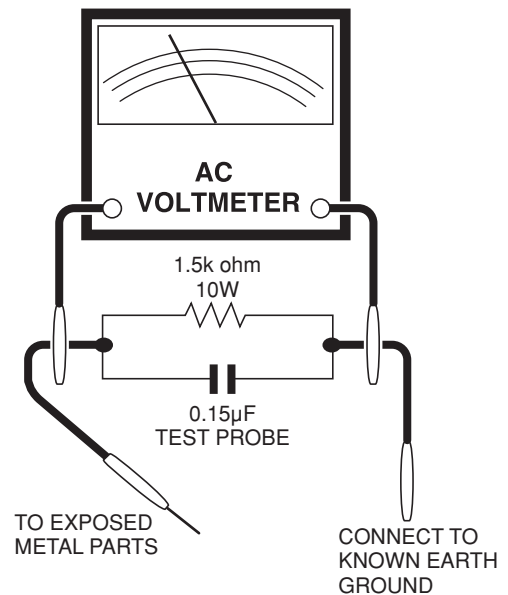
Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - Plug the AC cord directly into a 120 volt AC outlet, (Do not use an isolation transformer for this test).
  - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 $\mu$ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
  - Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.

- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC line cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)

Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



### SAFETY NOTICE

Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by " $\triangle$ " and shaded areas in the Replacement Parts Lists and Schematic Diagrams.

For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

## Precautions for using lead-free solder

### 1 Employing lead-free solder

"PWBs" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

**LFa**

**Sn-Ag-Cu**

Indicates lead-free solder of tin, silver and copper.

### 2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

### 3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition. Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

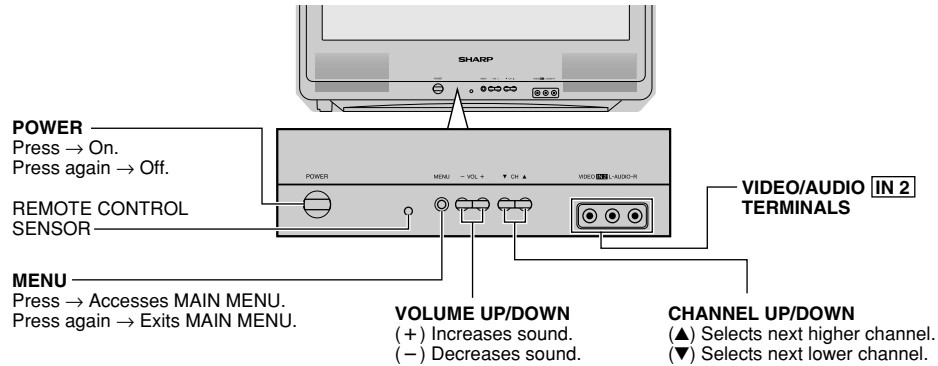
## Lead-free wire solder for servicing

Part No.	★	Description	Code
ZHNDAi123250E	J	φ0.3mm 250g(1roll)	BL
ZHNDAi126500E	J	φ0.6mm 500g(1roll)	BK
ZHNDAi12801KE	J	φ1.0mm 1kg(1roll)	BM

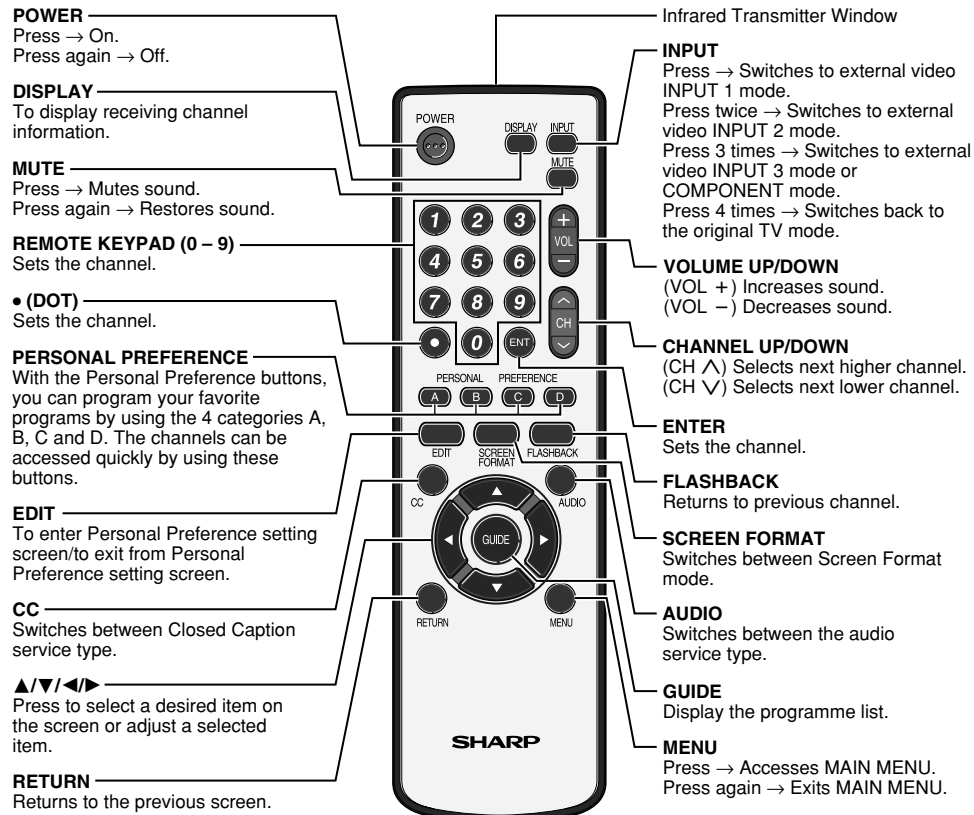


# LOCATION OF USER'S CONTROL

## Front Panel



## Basic Remote Control Functions



### Note:

- The TV set and remote control illustrations and the on-screen displays in this manual may differ from their actual appearance.

# INSTALLATION AND SERVICE INSTRUCTIONS

- Note:** (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdrivers or TV alignment tools.  
 (2) Before performing adjustments, the TV set must be on at least 15 minutes.

## CIRCUIT PROTECTION

The receiver is protected by a 4.0A fuse (F701), mounted on PWB-A, wired into one side of the AC line input.

## X-RADIATION PROTECTOR CIRCUIT TEST

**After service has been performed on the horizontal deflection system, high voltage system, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:**

1. Apply 120V AC using a variac transformer for accurate input voltage.
2. Allow for warm up and adjust all customer controls for normal picture and sound.
3. Receive a good local channel.
4. Connect a digital voltmeter to TP651-3 (P651 Pin3) and make sure that the voltmeter reads  $13.50 \pm 0.6V$  DC.
5. Apply external 17.2V DC at TP651-3 by using an external DC supply, TV must be shut off.
6. To reset the protector, unplug the AC cord (about 1 min.) and plug the AC cord power on. Now make sure that normal picture appears on the screen.
7. If the operation of the horizontal oscillator does not stop in step 5, the circuit must be repaired before the set is returned to the customer.

## HIGH VOLTAGE CHECK

**High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:**

1. Connect an accurate high voltage meter between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service adjustment "V95" and Bus data "02" (Y-mute on, CRT Cut Off).
4. The voltage should be below 30.5kV (at zero beam). If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.

**Note:** There are still a few analog adjustments in this series such as focus and master screen voltage. Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.

### 1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

### 2. Service number selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "D01" to "M07". Select the item you wish to adjust.

### 3. Data number selection

Press the Vol-up or Vol-down button to adjust the data number.

### To enter the service mode and exit service mode.

To enter the service mode manually just press and hold the Vol-down and Ch-up buttons at the same time, plug the AC cord into a wall socket.

Now the TV set is switched on and enters the service mode.

To exit the service mode, turn the television off by pressing the power button.

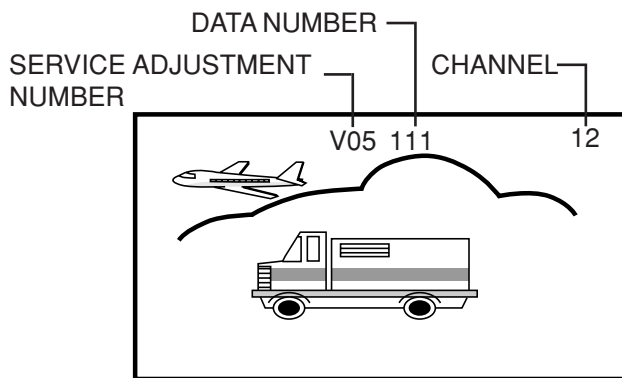


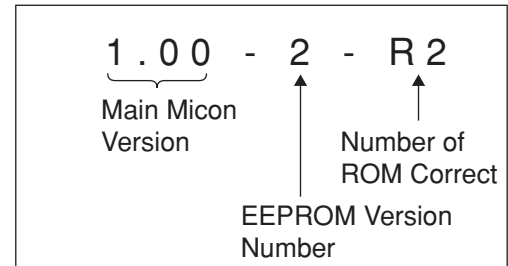
Figure A.

### 4. Donau and Main Micon version Check

1. After television power on, press test key "0x31" and the following screen will display.

VERSION NUMBER	
ANALOG	: 1.00-2-R2
DIGITAL	: 1.00

\* ANALOG – Main Micon IC (RH-IXB945WJQZQ) Software Version



\* DIGITAL – Renesas IC (Inside Tuner) Software Version

2. The version display screen will disappear after 30 second or pressing any key (except test key) will cancel the version display.
3. Alternatively for analog version only, go to service mode. Press menu key/button until "INFO" page appears in OSD. Version will display at bottom right corner. Explanation as below

MASK : 0S  
SOFT : (Main micon software ver.)  
CHK1 : (ROM1 correct)  
CHK2 : (ROM2 correct)

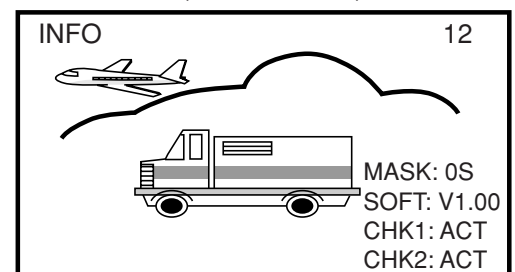


Figure B.

## A. Deflection

	no.	Item.	DATA	REG	Range	Remark	Revision / Change
4:3-Def-Adj	D01	V-SHIFT	FIX	V-SHIFT [13h D2...D0]	0 ... 7	0	
	D02	H-SHIFT	ADJ	H-PHASE [16h D4...D0]	0 ... 31	H-PHASE.DTV	
	D03	V-POS-4:3	ADJ	m-con	0 ... 255	V-PHASE.DTV	
	D04	V-SIZE-4:3	ADJ	V-SIZE [11h D5...D0]	0 ... 63	V-SIZE.DTV	
	D05	H-SIZE-4:3	ADJ	H-SIZE [18h D5...D0]	0 ... 63	H-SIZE.DTV	
	D06	VS-CORRECT -4:3	FIX	VS CORRECTION [19h D5...D0]	0 ... 63	28	
	D07	V-LINEARITY -4:3	ADJ	V-LINEARITY [1Dh D5...D0]	0 ... 63	V- LINEARITY.DTV	
	D08	E/W PARABOLA -4:3	ADJ	E/W PARABOLA [18h D5...D0]	0 ... 63	E/W PARABOLA.DTV	
	D09	E/W TRAPEZIUM -4:3	FIX	E/W TRAPEZIUM [1Ah D5...D0]	0 ... 63	27	
	D10	E/W CORNER -4:3	ADJ	E/W CORNER [1Ch D5...D0]	0 ... 63	E/W CORNER.DTV	
16:9-Def-Adj	D11	V-SHIFT-16:9	FIX	V-SHIFT [13h D2 ...D0]	0 ... 7	0	
	D12	H-SHIFT-16:9	ADJ	H-PHASE [16h D4 ...D0]	0 ... 31	H-PHASE.DTV	
	D13	V-POS-16:9	ADJ	m-con	0 ... 255	V-PHASE.DTV	
	D14	V-SIZE-16:9	ADJ	V-SIZE [11h D5...D0]	0 ... 63	V-SIZE.DTV	
	D15	H-SIZE-16:9	ADJ	H-SIZE [18h D5...D0]	0 ... 63	H-SIZE.DTV	
	D16	VS-CORRECT -16:9	FIX	V S CORRECTION [19h D5...D0]	0 ... 63	38	
	D17	V-LINEARITY -16:9	ADJ	V-LINEARITY [1Dh D5...D0]	0 ... 63	V- LINEARITY.DTV	
	D18	E/W PARABOLA -16:9	ADJ	E/W PARABOLA [18h D5...D0]	0 ... 63	E/W PARABOLA.DTV	
	D19	E/W TRAPEZIUM -16:9	FIX	E/W TRAPEZIUM [1Ah D5...D0]	0 ... 63	27	
	D20	E/W CORNER -16:9	ADJ	E/W CORNER [1Ch D5...D0]	0 ... 63	E/W CORNER.DTV	
	D21	V-BLK-TOP -16:9	FIX	Vert. Blanking Top [2Ch D3...D2]	0 ... 3	2	
	D22	V-BLK-BOTTOM -16:9	FIX	Vert. Blanking Bottom [2Ch D1...D0]	0 ... 3	2	
	D23	AFC1-IF	FIX	AFC1 Gain [27h D6]	0 / 1	0	
	D24	AFC2	FIX	AFC2-G [15h D6]	0 / 1	0	
	D25	V-FREE	FIX	V-FREE [10h D6]	0 / 1	1	
	D26	H-FREE	FIX	H-FREE [13h D7]	0 / 1	0	
	D27	HV-FREE	FIX	HV-FREE [25h D5]	0 / 1	0	
	D28	1W-TV	FIX	V.Window [13h D6]	0 / 1	0	
	D29	1W-AV-SAV	FIX	V.Window [13h D6]	0 / 1	0	
	D30	1W-YUV-DTV	FIX	V.Window [13h D6]	0 / 1	0	
	D31	SL-TV	FIX	S-SLICE DN [14h D3...D2] [24h D6]	0 ... 7	5	
	D32	SL-AV	FIX	S-SLICE DN [14h D3...D2] [24h D6]	0 ... 7	5	
	D33	SL-SAV	FIX	S-SLICE DN [14h D3...D2] [24h D6]	0 ... 7	5	
	D34	SL-YUV	FIX	S-SLICE DN [14h D3...D2] [24h D6]	0 ... 7	5	
	D35	SL-DTV	FIX	S-SLICE DN [14h D3...D2] [24h D6]	0 ... 7	5	
	D36	VD-DYTV	FIX	Vsync-Det [27h D3] [16h D7]	0 ... 3	0	
	D37	VD-AV	FIX	Vsync-Det [27h D3] [16h D7]	0 ... 3	0	
	D38	AS-TV	FIX	Auto-Slice [16h D6]	0 / 1	1	
	D39	AS-AV	FIX	Auto-Slice [16h D6]	0 / 1	1	

	no.	Item.	DATA	REG	Range	Remark	Revision / Change
	D40	AS-SAV	FIX	Auto-Slice [16h D6]	0 / 1	1	
	D41	AS-YUV	FIX	Auto-Slice [16h D6]	0 / 1	1	
	D42	AS-DTV	FIX	Auto-Slice [16h D6]	0 / 1	1	
	D43	FBP-TV	FIX	FBP VTH L [16h D5]	0 / 1	0	
	D44	AS-SPEED-UP	FIX	AS SPEED UP [28h D4]	0 / 1	0	
	D45	AS-SPEED-DN	FIX	AS SPEED DOWN [28h D5]	0 / 1	0	

## B. Video

	no.	Item.	DATA	REG	Range	Remark	Revision / Change
TV-Picture-Adj	V01	SUB-CON	ADJ	CONTRAST [05h D6...D0]	0 ... 127	PIC.DTV	
	V02	SUB-TINT	ADJ	TINT [07h D6...D0]	0 ... 127	TINT.DTV	
	V03	SUB-COL	ADJ	COLOR [08h D6...D0]	0 ... 127	COLOR.DTV	
	V04	SUB-BRI	ADJ	BRIGHT [0Ah D7...D0]	0 ... 255	PIC.DTV	
	V05	SUB-SHP	FIX	VIDEO-TONE [04h D5...D0]	0 ... 63	40	
	V06	R-CUT	ADJ	R-CUTOFF [0Dh D7...D0]	0 ... 255	WHITE.DTV	
	V07	G-CUT	ADJ	G-CUTOFF [0Eh D7...D0]	0 ... 255	WHITE.DTV	
	V08	B-CUT	ADJ	B-CUTOFF [0Fh D7...D0]	0 ... 255	WHITE.DTV	
	V09	R-DRI	ADJ	R-DRIVE [0Bh D6...D0]	0 ... 127	WHITE.DTV	
	V10	B-DRI	ADJ	B-DRIVE [0Ch D6...D0]	0 ... 127	WHITE.DTV	
YUV-Picture-Adj	V11	SUB-CON-YUV	ADJ	CONTRAST [05h D6...D0]	0 ... 127	PIC.DTV	
	V12	SUB-BB-TINT-YUV	ADJ	BASEBAND-TINT [17h D6...D0]	0 ... 127	TINT.DTV	
	V13	SUB-COL-YUV	ADJ	COLOR [08h D6...D0]	0 ... 127	COLOR.DTV	
	V14	SUB-BRI-YUV	ADJ	BRIGHT [0Ah D7...D0]	0 ... 255	PIC.DTV	
	V15	SUB-SHP-YUV	FIX	VIDEO-TONE [04h D5...D0]	0 ... 63	37	
	V16	R-CUT-YUV	ADJ	R-CUTOFF [0Dh D7...D0]	0 ... 255	WHITE.DTV	
	V17	G-CUT-YUV	ADJ	G-CUTOFF [0Eh D7...D0]	0 ... 255	WHITE.DTV	
	V18	B-CUT-YUV	ADJ	B-CUTOFF [0Fh D7...D0]	0 ... 255	WHITE.DTV	
	V19	R-DRI-YUV	ADJ	R-DRIVE [0Bh D6...D0]	0 ... 127	WHITE.DTV	
	V20	B-DRI-YUV	ADJ	B-DRIVE [0Ch D6...D0]	0 ... 127	WHITE.DTV	
DTV-Picture-Adj	V21	SUB-CON-DTV	ADJ	CONTRAST [05h D6...D0]	0 ... 127	PIC.DTV	
	V22	SUB-BB-TINT-DTV	ADJ	BASEBAND-TINT [17h D6...D0]	0 ... 127	TINT.DTV	
	V23	SUB-COL-DTV	ADJ	COLOR [08h D6...D0]	0 ... 127	COLOR.DTV	
	V24	SUB-BRI-DTV	ADJ	BRIGHT [0Ah D7...D0]	0 ... 255	PIC.DTV	
	V25	SUB-SHP-DTV	FIX	VIDEO TONE [04h D5...D0]	0 ... 255	35	
	V26	R-CUT-DTV	ADJ	R-CUTOFF [0Dh D7...D0]	0 ... 255	WHITE.DTV	
	V27	G-CUT-DTV	ADJ	G-CUTOFF [0Eh D7...D0]	0 ... 255	WHITE.DTV	
	V28	B-CUT-DTV	ADJ	B-CUTOFF [0Fh D7...D0]	0 ... 255	WHITE.DTV	
	V29	B-DRI-DTV	ADJ	B-DRIVE [0Ch D6...D0]	0 ... 127	WHITE.DTV	
	V30	R-DRI-DTV	ADJ	R-DRIVE [0Bh D6...D0]	0 ... 127	WHITE.DTV	

	no.	Item.	DATA	REG	Range	Remark	Revision / Change
Component	V31	SHPG-YUV	FIX	V-TONE [02h D3]	0 / 1	1	
	V32	YDL-YUV	FIX	Y-Delay [06h D2...D0]	0 ... 7	1	
	V33	CrDL-FINE-YUV	FIX	CrDL FINE ADJ. [21h D3...D2]	0 ... 3	0	
	V34	CbDL-FINE-YUV	FIX	CbDL FINE ADJ. [21h D1...D0]	0 ... 3	0	
	V35	CB-P-YUV	FIX	CB PEDESTAL ADJ. [29h D3...D0]	0 ... 15	7	
	V36	CR-P-YUV	FIX	CR PEDESTAL ADJ. [28h D3...D0]	0 ... 15	7	
	V37	C-ANGLE-YUV	FIX	C.ANGLE 95 [15h D1]	0 / 1	0	
DTV	V38	SHPG-DTV	FIX	V-TONE [02h D3]	0 / 1	1	
	V39	YDL-DTV	FIX	Y-Delay [06h D2...D0]	0 ... 7	1	
	V40	CrDL-FINE-DTV	FIX	CrDL FINE ADJ. [21h D3...D2]	0 ... 3	0	
	V41	CbDL-FINE-DTV	FIX	CbDL FINE ADJ. [21h D1...D0]	0 ... 3	0	
	V42	CB-P-DTV	FIX	CB PEDESTAL ADJ. [29h D3...D0]	0 ... 15	7	
	V43	CR-P-DTV	FIX	CR PEDESTAL ADJ. [28h D3...D0]	0 ... 15	7	
	V44	C-ANGLE-DTV	FIX	C.ANGLE 95 [15h D1]	0 / 1	0	
TV	V45	SHPG-TV	FIX	V-TONE [02h D3]	0 / 1	1	
	V46	YDL-TV-AV	FIX	Y-Delay [06h D2...D0]	0 ... 7	5	
	V47	TAKE-OFF-TV	FIX	TAKE OFF [02h D0]	0 / 1	0	
	V48	C-ANGLE	FIX	C.ANGLE 95 [15h D1]	0 / 1	0	
COLOR TEMP	V49	R-R2	FIX	R-DR1(OFFSET) [0Bh D6...D0]	-32 ... +32	+13	
	V50	R-R	FIX	R-DR1(OFFSET) [0Bh D6...D0]	-32 ... +32	+2	
	V51	R-B	FIX	R-DR1(OFFSET) [0Bh D6...D0]	-32 ... +32	-6	
	V52	B-R2	FIX	B-DR1(OFFSET) [0Ch D6...D0]	-32 ... +32	-23	
	V53	B-R	FIX	B-DR1(OFFSET) [0Ch D6...D0]	-32 ... +32	-8	
	V54	B-B	FIX	B-DR1(OFFSET) [0Ch D6...D0]	-32 ... +32	+5	
S-VIDEO	V55	BRIGHT-OFF-SAV	FIX	BRIGHT (OFFSET) [0Ah D7...D0]	-63 ... +63	+7	
	V56	CON-OFF-SAV	FIX	CONTRAST(OFFSET) [05h D6...D0]	-32 ... +32	+11	
	V57	TINT-OFF-SAV	FIX	TINT(OFFSET) [07h D6...D0]	-32 ... +32	+1	
	V58	COL-OFF-SAV	FIX	COLOR(OFFSET) [08h D6...D0]	-32 ... +32	+5	
	V59	SHP-OFF-SAV	FIX	VIDEO-TONE(OFFSET) [04h D6...D0]	-32 ... +32	0	
	V60	YDL-SAV	FIX	Y-Delay [06h D2...D0]	0 ... 7	1	
F-AV	V61	BRIGHT-OFF-FAV	FIX	BRIGHT(OFFSET) [0Ah D7...D0]	-63 ... +63	-7	
	V62	CON-OFF-FAV	FIX	CONTRAST(OFFSET) [05h D6...D0]	-32 ... +32	+15	
	V63	TINT-OFF-FAV	FIX	TINT(OFFSET) [07h D6...D0]	-32 ... +32	+2	
	V64	COL-OFF-FAV	FIX	COLOR(OFFSET) [08h D6...D0]	-32 ... +32	+1	
	V65	SHP-OFF-FAV	FIX	VIDEO-TONE(OFFSET) [04h D6...D0]	-32 ... +32	0	

	no.	Item.	DATA	REG	Range	Remark	Revision / Change
RR-AV	V66	BRIGHT-OFF-AV	FIX	BRIGHT(OFFSET) [0Ah D7...D0]	-63 ... +63	-5	
	V67	CON-OFF-AV	FIX	CONTRAST(OFFSET) [05h D6...D0]	-32 ... +32	+15	
	V68	TINT-OFF-AV	FIX	TINT(OFFSET) [07h D6...D0]	-32 ... +32	+3	
	V69	COL-OFF-AV	FIX	COLOR(OFFSET) [08h D6...D0]	-32 ... +32	+1	
	V70	SHP-OFF-AV	FIX	VIDEO-TONE(OFFSET) [04h D6...D0]	-32 ... +32	0	
	V71	TINT-OFF-ADJ-TV	FIX	TINT [07h D6...D0]	-32 ... +32	0	
	V72	CON-OFF-16:9	FIX	CONTRAST(OFFSET) [05h D6...D0]	-15 ... +15	-7	
	V73	BRI-OFF-16:9	FIX	BRIGHT(OFFSET) [0Ah D7...D0]	-15 ... +15	0	
	V74	TRAP-FINE-TV-AV	FIX	TRAP-FINE [12h D1...D0]	0...3	2	
	V75	TRAP-TV-AV	FIX	C-TRAP OFF [02h D4]	0 / 1	1	
	V76	SHPG-AV	FIX	V-TONE [02h D3]	0 / 1	1	
	V77	SHPG-SAV	FIX	V-TONE [02h D3]	0 / 1	1	
	V78	COL-OFF-16:9	FIX	COLOR(OFFSET) [08h D6...D0]	-15 ... +15	0	
	V79	TRAP-DTV-YUV	FIX	C-TRAP OFF [02h D4]	0 / 1	1	
	V80	TAKE-OFF-AV	FIX	TAKE OFF [02h D0]	0 / 1	0	
	V81	TAKE-OFF-SAV	FIX	TAKE OFF [02h D0]	0 / 1	0	
	V82	RF-AGC	ADJ	RF-Delay [00h D6...D0]	0 ... 127	AGC.DTV	
	V83	VIF-AGC	FIX	VIF AGC Clip [27h D1]	0 / 1	0	
	V84	VIF-G	FIX	VIF-GAIN [06h D7...D5]	0 ... 7	7	
	V85	V-AGC	FIX	V-AGC [1Dh D6]	0 / 1	0	
	V86	VIF-VCO	ADJ	VIF-VCO [01h D5...D0]	0 ... 63	VIF-VCO.DTV	
	V87	H-VCO	ADJ	H-VCO [10h D2...D0]	0 ... 7	H-VCO.DTV	
	V88	BS	FIX	BS-OFF [02h D1]	0 / 1	0	
	V89	BS-GAIN	FIX	BLACK STRETCH GAIN [15h D2]	0 / 1	0	
	V90	BS-D	FIX	BS-DISCHARGE [14h D7...D6]	0 ... 3	2	
	V91	BS-C	FIX	BS-CHARGE [14h D5...D4]	0 ... 3	0	
	V92	ABCL	FIX	ABCL [02h D2]	0 / 1	0	
	V93	ABCL-Gain	FIX	ABCL-G [04h D7]	0 / 1	0	
	V94	GAMMA	FIX	GAMMA [12h D3...D2]	0 ... 3	0	
	V95	Y-MUTE	FIX	m-con	0,1,2	0	
	V96	CbCr-G	FIX	CbCr GAIN UP [29h D6]	0 / 1	1	
	V97	STP	FIX	Test Pattern Signal [2Fh D3...D0]	0 ... 15	0	
	V98	RGB-CLIP	FIX	ExtRGB-Clip [05h D7]	0 / 1	0	
	V99	OSD-LVL	FIX	OSD LEVEL [15h D5]	0 / 1	0	
	V100	YLPF	FIX	YSW-LPF [13h D5]	0 / 1	0	
	V101	C.Clip Level	FIX	C.Clip Level [02h D5]	0 / 1	0	
	V102	S-TRAP	FIX	S-TRAP [20h D7][1Fh D7...D5]	0 ... 31	16	
	V103	S-TRAP OFF	FIX	S-TRAP OFF [1Eh D7]	0 / 1	1	
	V104	OM-DET	FIX	OM DETECTOR [15h D3]	0 / 1	0	



	no.	Item.	DATA	REG	Range	Remark	Revision / Change
	V105	R-MTX-DN	FIX	R MTX DOWN [23h D6]	0 / 1	0	
	V106	CTI	FIX	CTI [23h D3]	0 / 1	1	
	V107	KILLER-LVL	FIX	KILLER LEVEL [15h D0]	0 / 1	1	
	V108	SIF-BW	FIX	SIF BPF WIDE [2Bh D5...D4]	0 ... 3	1	
	V109	E-SAVE	FIX	CONTRAST(OFFSET) [05h D6...D0]	0 ... 63	30	
	V110	MONITORING	FIX	Intelligent MON [1Ah D6][12h D7...D4]	0 ... 31	21	
	V111	OFF-ADJ-TINT-YUV	FIX	BB Tint Control [17h D6...D0]	-32 ... +32	0	
	V112	OFF-ADJ-TINT-DTV	FIX	BB Tint Control [17h D6...D0]	-32 ... +32	0	
	V113	CC-POS	ADJ	m-con	0 ... 255	CC.DTV	
	V114	CC LEVEL	FIX	m-con	0 ... 31	0	
	V115	OSD POS	FIX	m-con	0 ... 31	0	
	V116	DIGITAL POW OFF TIM	FIX	m-con	0...255	50	
	V117	BSW CONTROL	FIX	m-con	0...100	85	
	V118	SVM-SAV	FIX	DELAY Y ADJ [22h D5...D4]	0...3	0	
	V119	SVM-COMP	FIX	DELAY Y ADJ [22h D5...D4]	0...3	0	
	V120	SVM-DTV	FIX	DELAY Y ADJ [22h D5...D4]	0...3	0	
	V121	RGB ADJ	FIX	m-con	0...127	127	
	V122	ChromaBPF	FIX	ChromaBPF [26h D6]		1	

## C. Sound

	no.	Item.	DATA	REG	Range	Remark	Revision / Change
	M01	MTS-ATT	ADJ	ATT [00h D3...D0]	0 ... 15	MS.DTV	
	M02	MTS-VCO	FIX	VCO [01h D5...D0]	0 ... 63	32	
	M03	MTS-FILT	FIX	FILTER [02h D5...D0]	0 ... 63	28	
	M04	MTS-WBND	ADJ	WIDEBAND [04h D5...D0]	0 ... 63	SEPA.DTV	
	M05	MTS-SPEC	ADJ	SPECTRAL [03h D5...D0]	0 ... 63	SEPA.DTV	
	M06	SUB-VOL	FIX	VOL [07h,08h D5...D0]	0 ... 63	63	
	M07	FAO-VOL	FIX	VOL [07h,08h D5...D0]	0 ... 50	26	

## D. Option

		Model 27SC—	REMARKS/ REVISION
O 01	SPEAKER	1	
O 02	FAO	1	
O 03	VIEW TIMER	1	
O 04	PON-CH	1	
O 05	FAV-COL	1	
O 06	AV3/COMPONENT	1	
O 07	AV	1	
O 08	AV2	1	
O 09	MTS	1	
O 10	TONE-CTRL	1	
O 11	AUTO-OFF	1	
O 12	INIT-LANG	0	
O 13	S-IN	1	
O 14	COMB	0	
O 15	AUTO-INPUT	1	
O 16	FLAT	1	
O 17	WHITE-OUT	0	
O 18	CURSOR R/C	1	
O 19	EDIT KEY R/C	1	

Holding down both the VOL-up and CH-up buttons on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2101.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
IC801	X		The adjustment is needed to compensate for characteristics of parts including IC801 and MTS level (M01).
IC2101	X		Holding down both the VOL-up and CH-up buttons on the TV set in the service mode for more than 2 seconds will automatically write the above initial values into IC2101 Then perform a complete adjustment.
CRT	X		Adjust items related to picture tube only.
IC3001	X		Adjust items related to MTS only (M01~M07).

## SERVICE ADJUSTMENT

### H-VCO ADJ (I<sup>2</sup>C BUS CONTROL) (Auto & Manual Adj)

- Manual Adj.
  1. In No Signal (RASTER) condition.
  2. Go to service mode, choose service data V87.
  3. Connect oscilloscope to IC801 Pin15, adjust V87 until frequency become  $15.75 \pm 0.15$  kHz.
- Auto Adj.
  4. In No Signal (RASTER) condition.
  5. Go to service mode, choose service data V87, by pressing R/C Auto (HEX 44) key, OSD will appear "OK" at screen.
  6. If appear "NG", please repeat step 3.

### VIF-VCO ADJ (I<sup>2</sup>C BUS CONTROL) (Auto & Manual Adj)

- Manual Adj.
  1. In No Signal (RASTER) condition.
  2. Go to service mode, choose service data V86.
  3. Connect oscilloscope to IC801 Pin9, adjust V86 until voltage between  $2.5 \pm 1.0$  V.
- Auto Adj.
  4. In No Signal (RASTER) condition.
  5. Go to service mode, choose service data V86.
  6. Press the R/C Auto (HEX C5) key, OSD will appear "OK" at screen.
  7. If appear "NG", please repeat step 3.

### RF AGC Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V82".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.

**Note 1 :** You will have to come out of the service mode to select another channel.

**Note 2 :** Setting the data to "00" will produce a black raster.

### Screen Adjustment

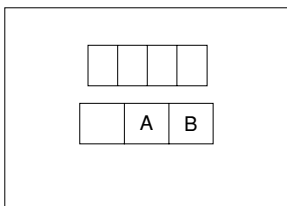
1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V03" and set the data value to "00" to set the color level to minimum. (Record original data code under adjustment "V03" before changing) You may skip this step, if you selected a B/W picture or monoscope pattern.
3. Select the service adjustment "V95" and adjust the data value to "02", this turn off the luminance signal (Y-mute).
4. Adjust the master screen control until the raster darkness to the point where raster is barely seen.
5. Adjust the service adjustments "V06" red, "V07" green and "V08" blue to obtain a good grey scale with normal whites at low brightness level.
6. Select the service adjustment "V95" and reset data to "00". Select the service adjustment "V03" and reset data to obtain normal color level.
7. For component input, the data value of "V16" red, "V17" green and "V18" blue is adjusted to follow the data value of "V06", "V07" and "V08" respectively.
8. For digital RF input, the data value of "V26" red, "V27" green and "V28" blue is adjusted to follow the data value of "V06", "V07" and "V08" respectively.
9. Reset the master screen control to obtain normal brightness range.

## White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "V03" and set to "00" (minimum color) (Record original data code under adjustment "V03" before changing). "V03" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust the service adjustment data of "V09" and "V10" until a good grey scale with normal whites is obtained. (RF Input)
4. For component input, the data value of "V19" and "V20" is adjusted to follow the data value of "V09" and "V10" respectively.
5. For digital RF input, the data value of "V29" and "V30" is adjusted to follow the data value of "V09" and "V10" respectively.
6. Select the service adjustment "V03" and reset data to obtain normal color level.

## Sub-picture and Sub-Bright Adjustments

1. Receive the window pattern signal.
- RF INPUT (TU1101)
2. Get into service adjustment data "V01" and "V04" and set the luminance as shown in figure "A" and "B" as below respectively.
- COMPONENT INPUT
3. Get in service adjustment data "V11" and "V14" and set the luminance as shown in figure "A" and "B" as below respectively.



LUMINESCENCE CONFIRMATION

A:  $86 \pm 10 \text{cd/m}^2$

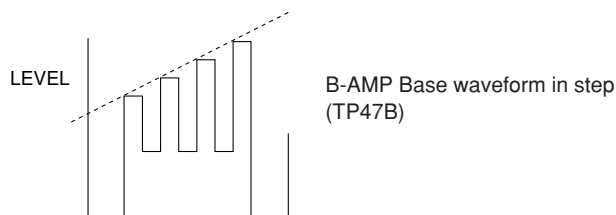
B:  $1.25 \pm 0.5 \text{cd/m}^2$

### • DIGITAL RF INPUT (TU1101)

4. Get in service adjustment data "V21", "V24".
  - 4-1 Input data of "V21" = "V01" - 05 Steps
  - 4-2 Input data of "V24" = "V04" + 09 Steps

## Sub-Tint Adjustment

1. Receive the half color bar signal.
- RF INPUT (TU1101)
2. Get into Y-Mute by R/C, or by setting the "V95" bus data to "01".
3. Vary the "V02" bus data until the waveform becomes as stated below.
4. Reset "V95" bus data to "00".
- Component Input
5. Get into Y-mute by R/C, or by setting the "V95" bus data to "01".
6. Vary the "V12" bus data until the waveform becomes as stated below.
7. Reset "V95" bus data to "00".
- Digital RF Input (TU1101)
8. Input data of "V22" = "V02" + 13 steps.
9. Reset "V95" bus data to "00".



## Sub-Color Adjustment

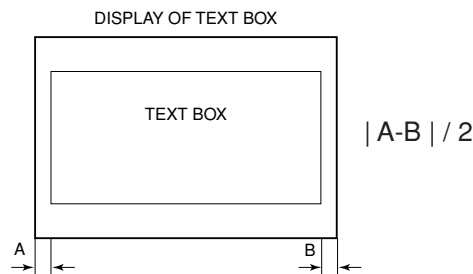
1. Receive a good local channel.
2. Make sure the customer color control is set to center position.
- RF INPUT (TU1101)
3. Enter the service mode and select service adjustment "V03".
4. Adjust "V03" data value to obtain a normal color level.
- Component Input
5. Enter the service mode and select service adjustment "V13".
6. Adjust "V13" data value to obtain a normal color level.
- Digital RF Input (TU1101)
7. Input data of "V23" = "V03" + 59 steps.

## Focus Adjustment

1. Receive a good local channel.
2. Adjust the FOCUS VR of the flyback transformer to make the image as fine as possible.

## C. C Display Position Adjustment

1. Receive the lion head pattern signal.
2. Select "V113" to display the text box.
3. Adjust the "V113" bus data to let the text box displayed in the center.



SPEC INSPECTION:  $|A-B| / 2 \leq 5 \text{mm}$

## Vertical-Size and Linearity Adjustments

1. Receive a good local channel.  
(SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D04" for V-size.
3. Adjust the "D04" bus data to get the proper V-size.
4. For V-linearity adjustment, select data bus "D07" and adjust to get the proper vertical linearity.  
(SCREEN FORMAT 16:9)
5. Input data of "D14" to minus 26 steps from "D04" data. (V-SIZE)
6. Input data of "D17" to minus 3 steps from "D07" data. (V-LIN)

**Note:** Aging for 10 min before adjustment. After the adjustment of V-center and V-size, re-adjustment for this V-line.

## Vertical Phase Adjustment

1. Enter the service mode and input data of "00" on "D01".
2. Adjust "D03" data value so that picture is centered.  
(SCREEN FORMAT 16:9)
3. Input data of "00" on "D11".
4. Input data of "D13" is additional 10 steps from data "D03".

## Horizontal Position Adjustment

1. Receive a good local channel.  
(SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D02".
3. Adjust "D02" data value so that picture is centered.  
(SCREEN FORMAT 16:9)
4. Input data of "D12" same as "D02" data.

## Horizontal-Size Adjustment

1. Receive a good local channel.  
(SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D05" for H-size.
3. Adjust the "D05" bus data to get the proper H-size.  
(SCREEN FORMAT 16:9)
4. Input data of "D15" is additional 1 step from data "D05".

## EW-Parabola

1. Receive a good local channel.  
(SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D08" for EW parabola.
3. Adjust the "D08" bus data to get the proper vertical straight line for both left and right side.  
(SCREEN FORMAT 16:9)
4. Input data of "D18" to minus 10 steps from "D08" data.

## EW-Corner

1. Receive a good local channel.  
(SCREEN FORMAT 4:3)
2. Enter the service mode and select the service adjustment "D10" for EW-Corner.
3. Adjust the "D10" bus data to get the best position display.  
(SCREEN FORMAT 16:9)
4. Input data of "D20" is plus 2 steps of "D10" data.

## ■ MTS ADJUSTMENT

### MTS Level Adjustment

1. Set the sound volume above 1.  
Monoral signal: 400Hz, 100% modulation
2. Vary the "M01" bus data until the voltage to pin (39) of IC3001 to become the value as stated below.  
SETTING VOLTAGE  
ADJ spec :  $490 \pm 10$  mVrms  
CHK spec:  $490 \pm 20$  mVrms

### Separation Adjustment

1. Input "SIGNAL 1" and vary the "M04" bus data to get the minimum AC voltage to pin (39) of IC3001.
2. Input "SIGNAL 2" and vary the "M05" bus data to get the minimum AC voltage to pin (39) of IC3001.  
SIGNAL 1: 300Hz, 30% modulation, Lch only, NR-ON  
SIGNAL 2: 3kHz, 30% modulation, Lch only, NR-ON

**Note:** SIGNAL 1 Adj. for wideband

SIGNAL 2 Adj. for spectral

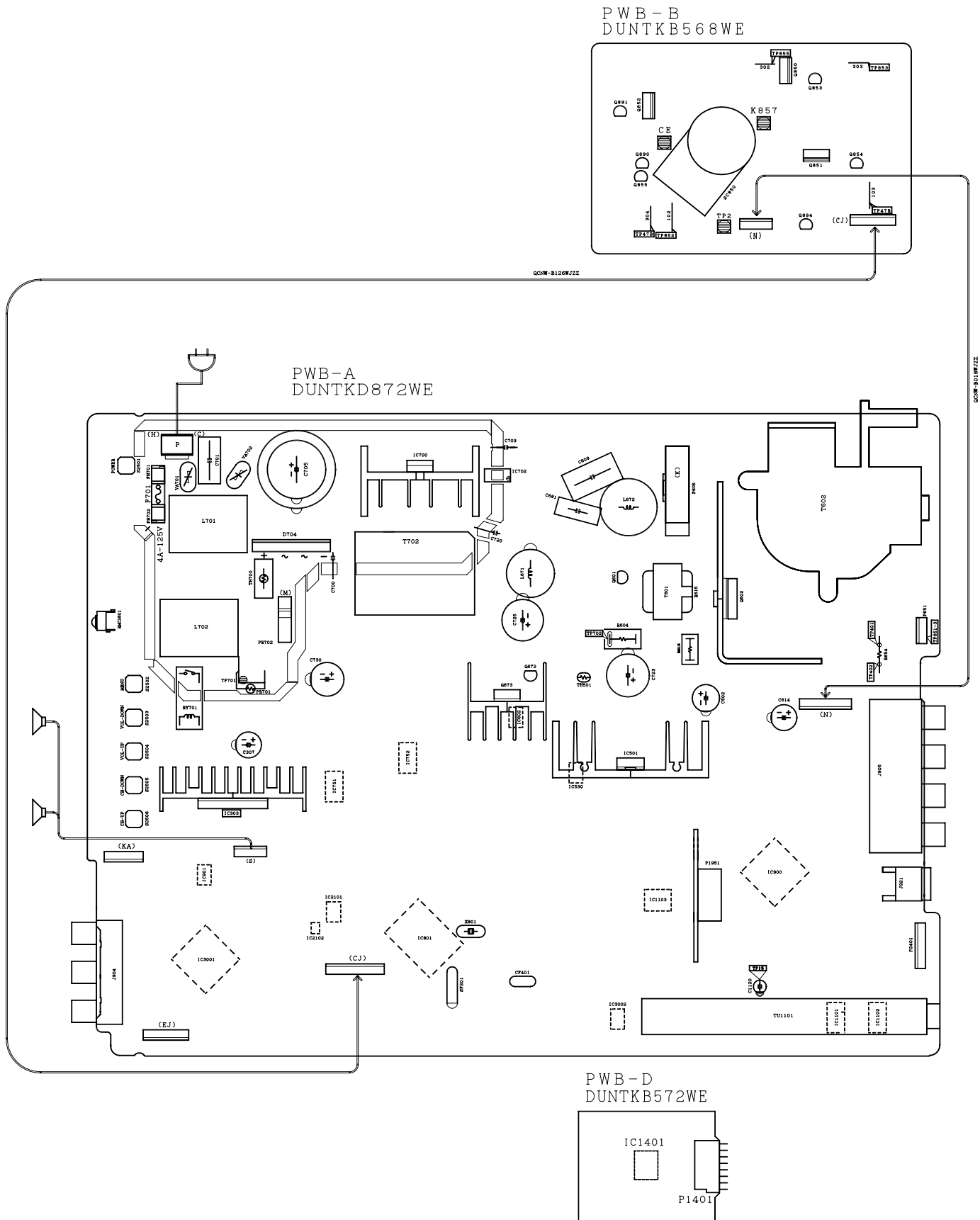
Check the output of the speaker at the maximum volume as stated below.

Confirmation spec:

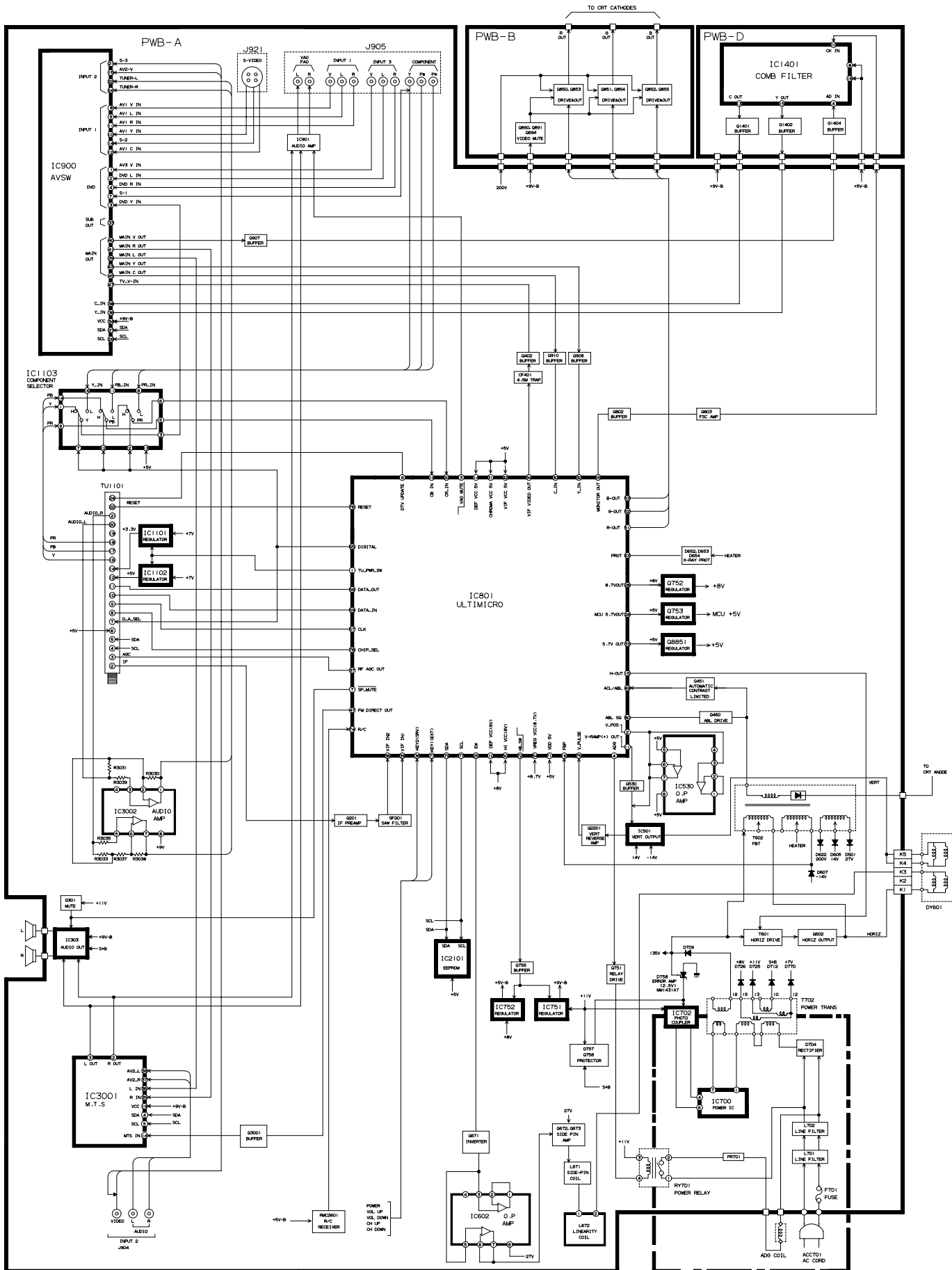
ADJ spec: above 25 dB

CHK spec: above 20 dB

# CHASSIS LAYOUT



## BLOCK DIAGRAM



# DESCRIPTION OF SCHEMATIC DIAGRAMS

## NOTES:

1. The unit of resistance "ohm" is omitted.  
(K=kW=1000W, M=MW)
2. All resistors are 1/16 watt, unless otherwise noted.
3. All capacitors are  $\mu F$ , unless otherwise noted.  
(P=pF= $\mu\mu F$ )
4. (G) indicates  $\pm 2\%$  tolerance may be used.
5.  $\overline{\text{---}}$  indicates line isolated ground.

## VOLTAGE MEASUREMENT CONDITIONS:

1. All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltage set at 120V AC and all controls set for normal picture unless otherwise indicated.
2. All voltages measured with 1000 $\mu V$  B & W or Color signal.

## WAVEFORM MEASUREMENT CONDITIONS:

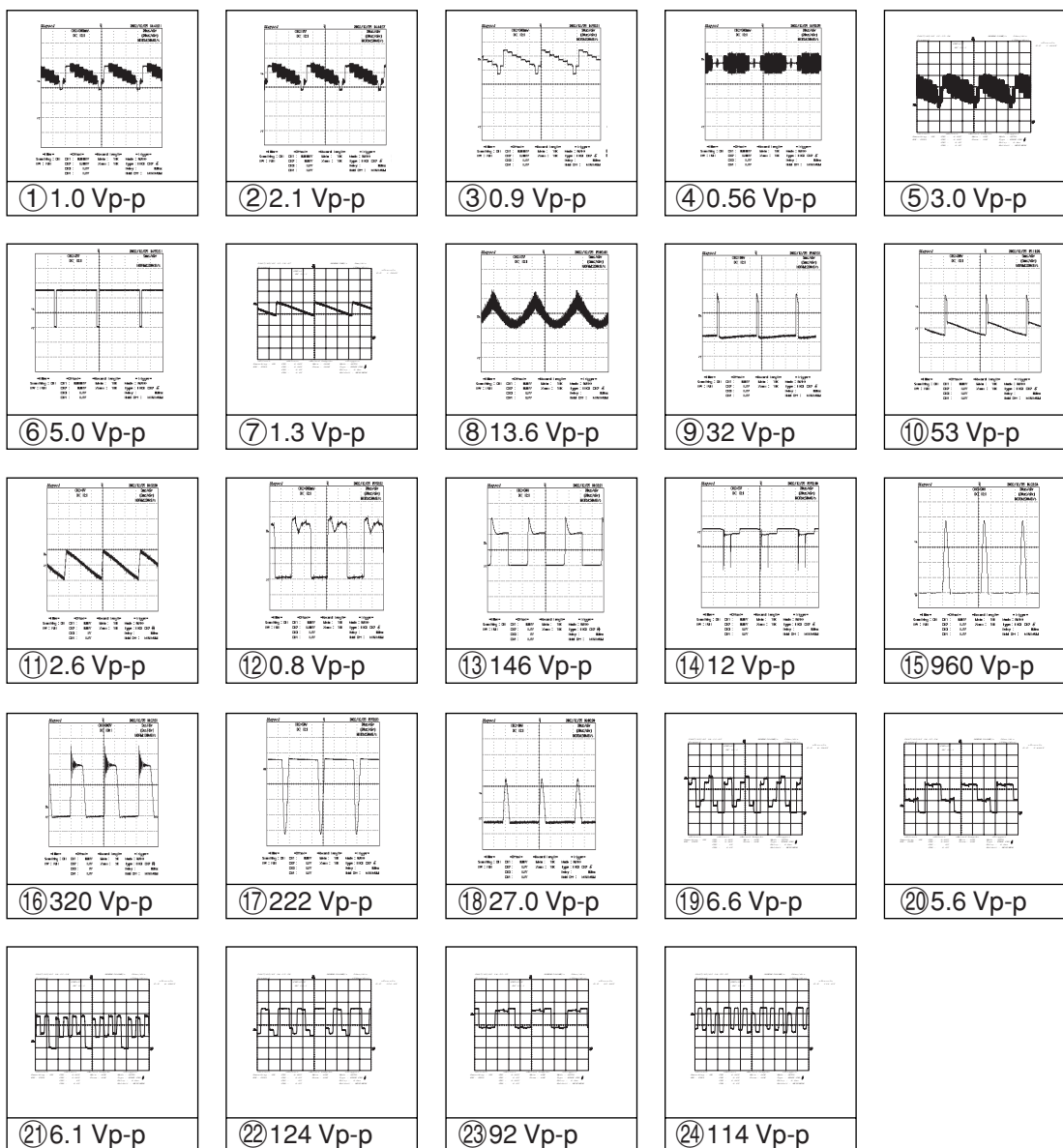
1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
2.  $\bigcirc$  indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

⚠ AND SHADED (  ) COMPONENTS = SAFETY RELATED PARTS.

▲ MARK= X-RAY RELATED PARTS.

This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.

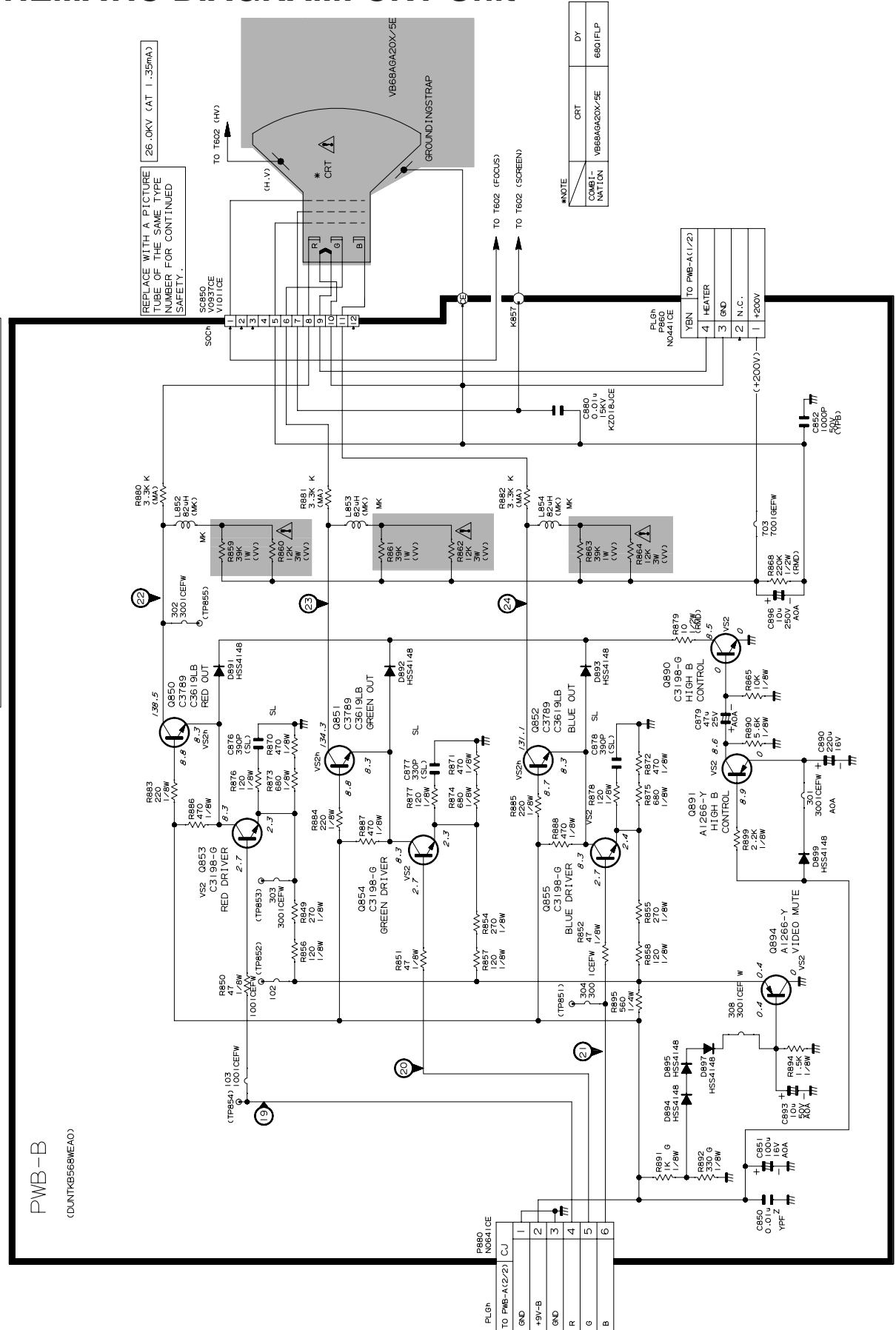
## WAVEFORMS





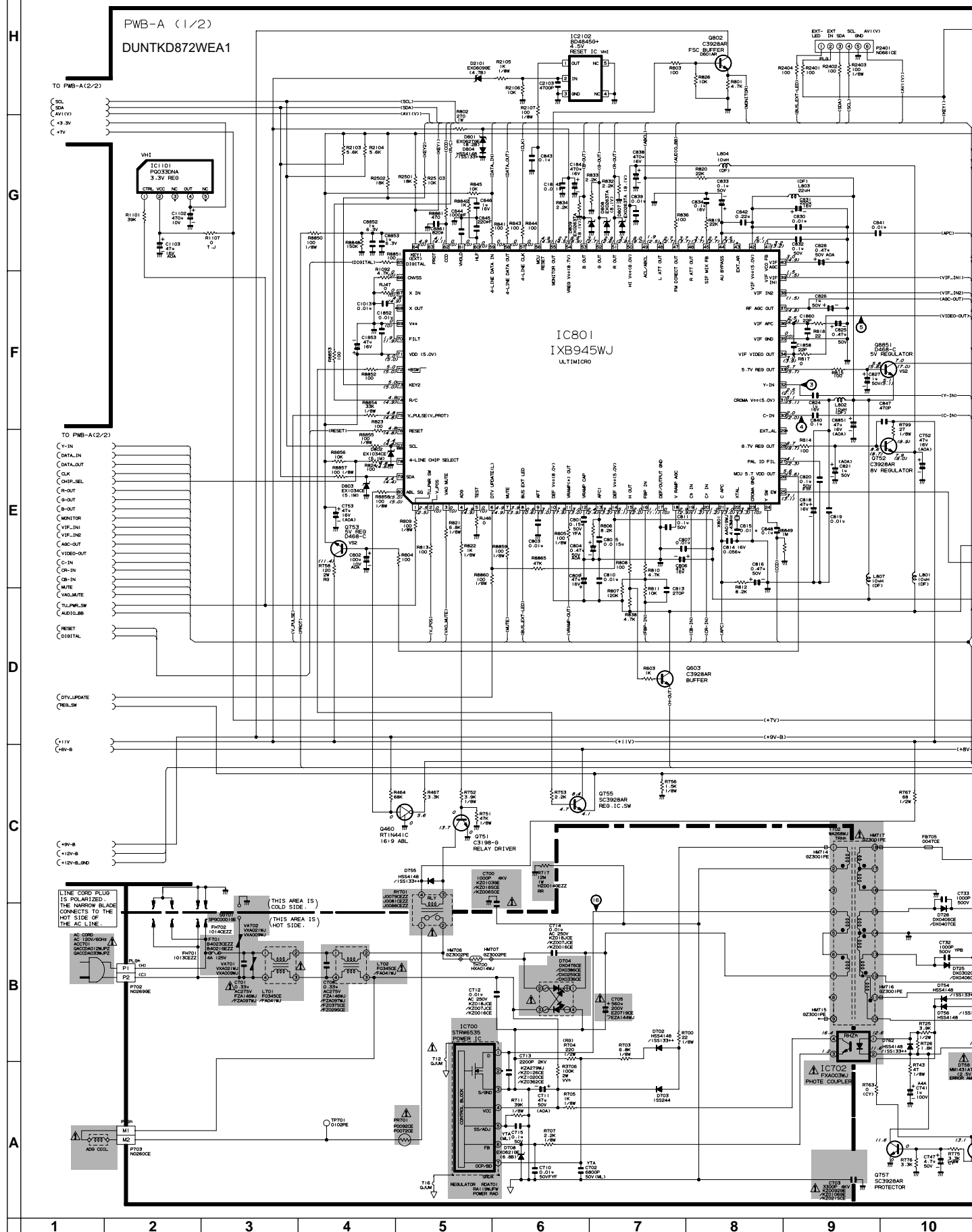
## SCHEMATIC DIAGRAM: CRT Unit

NOTE: 1. THE UNIT OF RESISTANCE \*OHM\* IS OMITTED  
 2. THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL  
 (u, p, etc.).



## SCHEMATIC DIAGRAM: MAIN-1 Unit

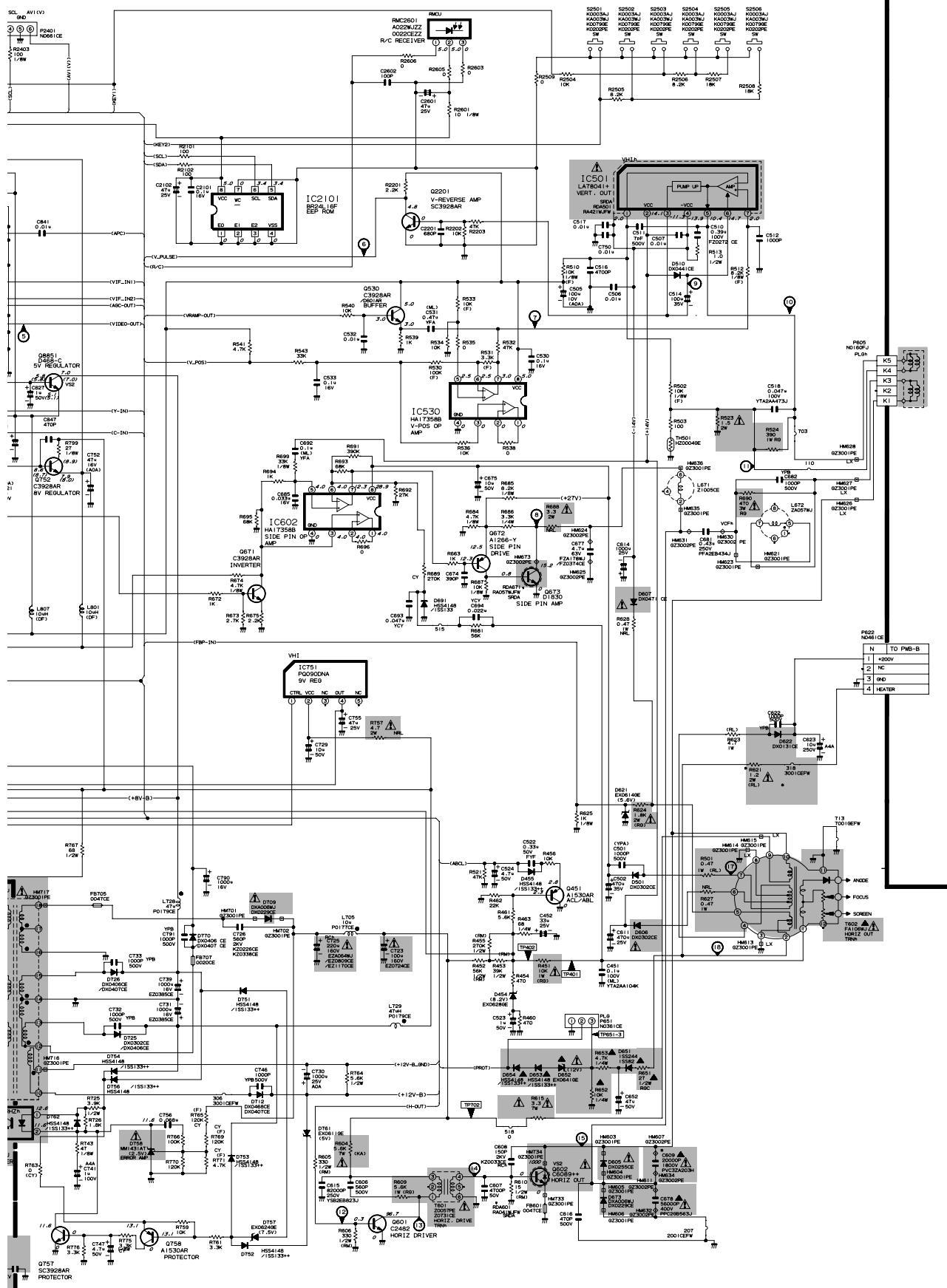
MAIN I



MAINI

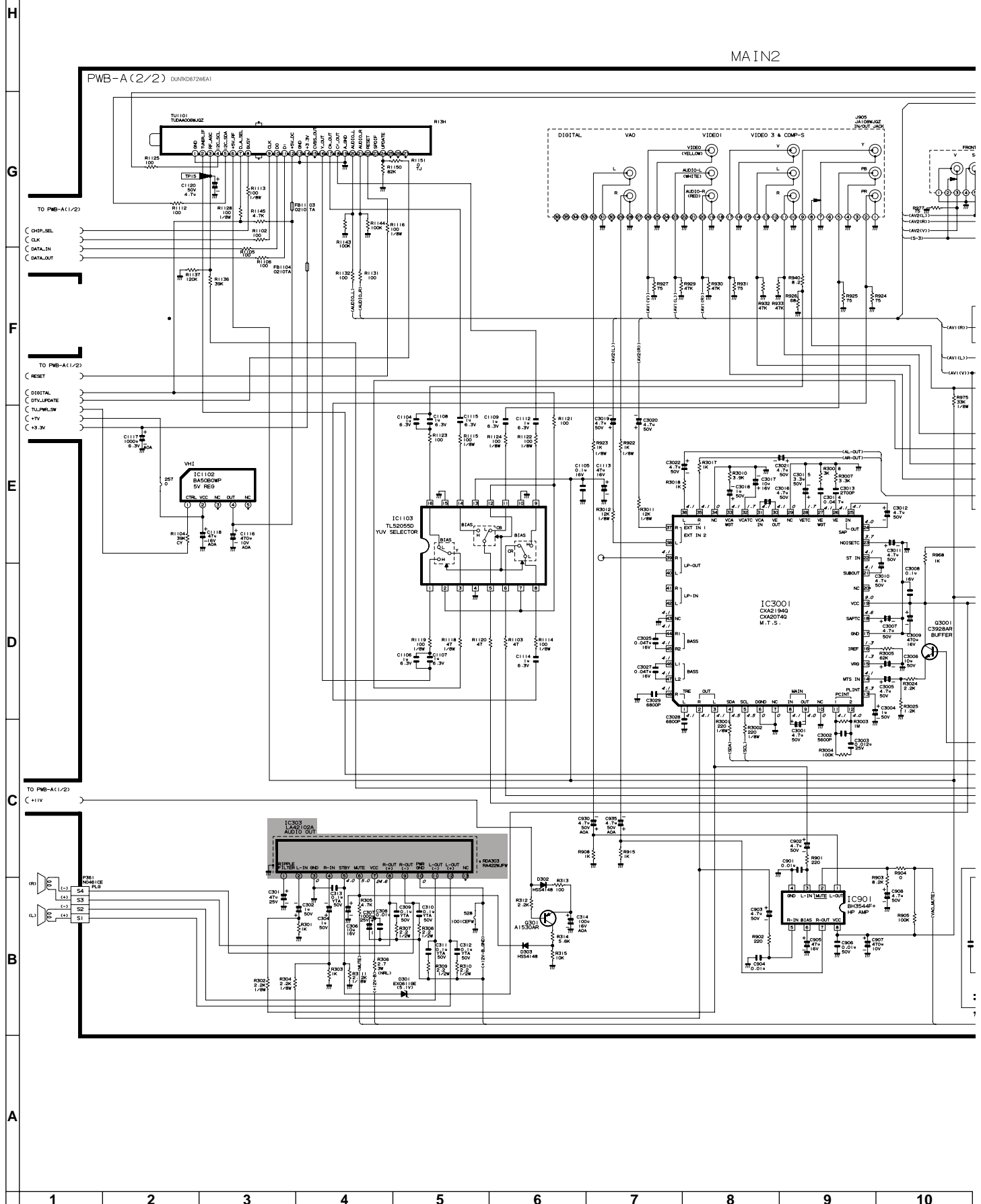
▲ AND SHADED ( ) COMPONENTS  
= SAFETY RELATED PARTS.  
▲ MARK = X-RAY RELATED PARTS.

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED  
(K=1000 OHMS, M=MEGAOHM).  
2. ALL RESISTORS ARE 1/16 WATT UNLESS OTHERWISE NOTED.  
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL  
(u, P, ETC).



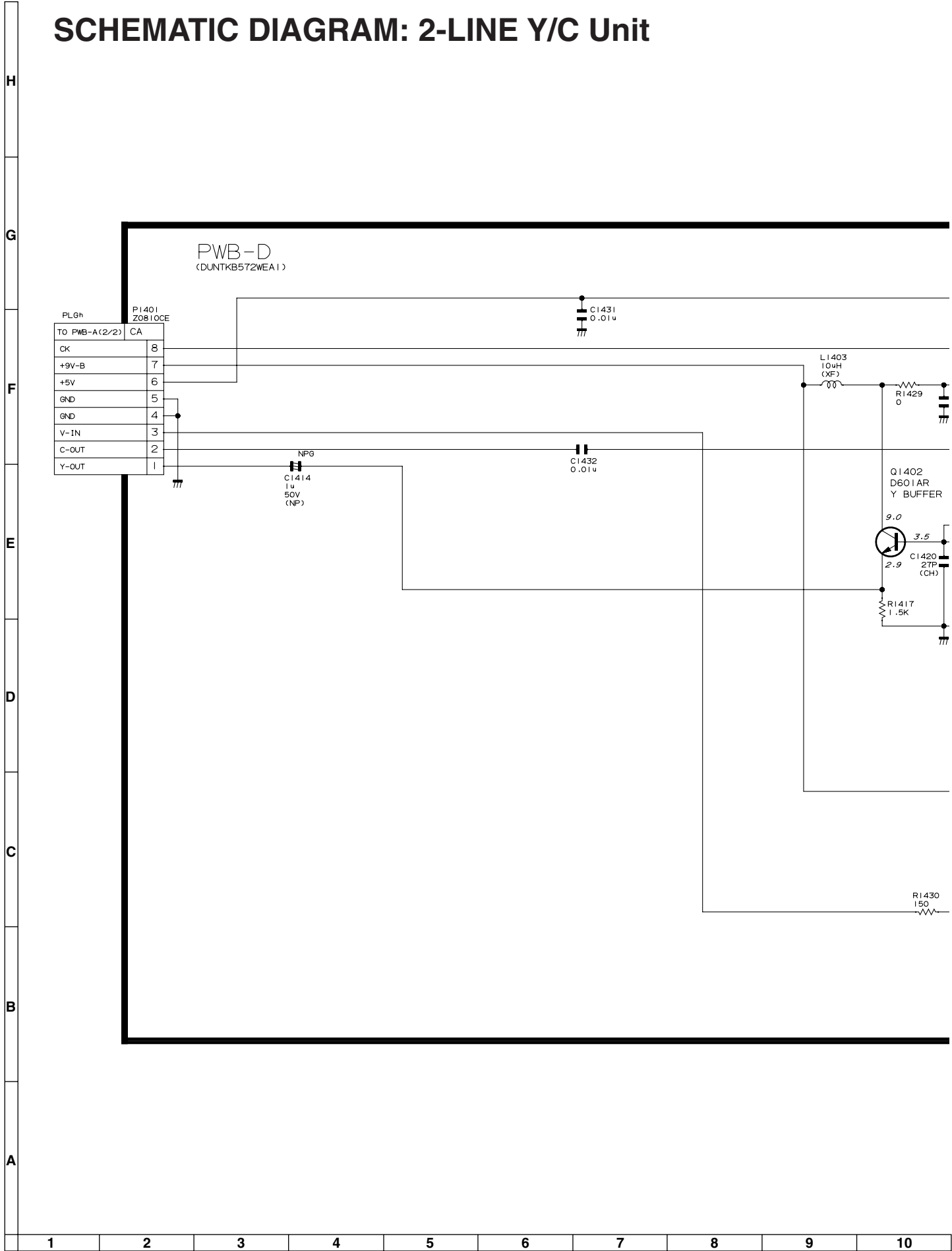
10	11	12	13	14	15	16	17	18	19
----	----	----	----	----	----	----	----	----	----

## SCHEMATIC DIAGRAM: MAIN-2 Unit

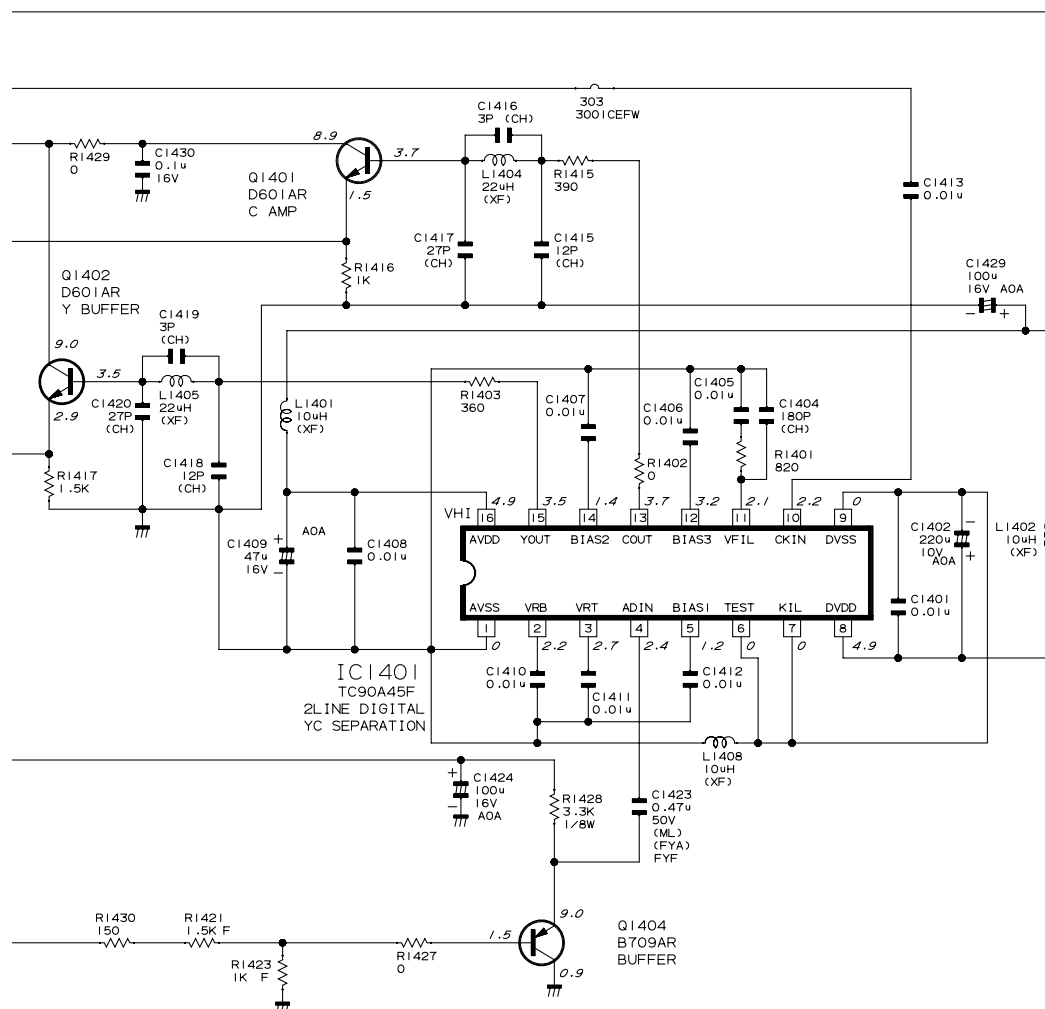




SCHEMATIC DIAGRAM: 2-LINE Y/C Unit



NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED  
(K=1000 OHMS, M=MEGAOHM).  
2. ALL RESISTORS ARE 1/16 WATT, UNLESS OTHERWISE NOTED.  
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL  
(u, P, ETC).

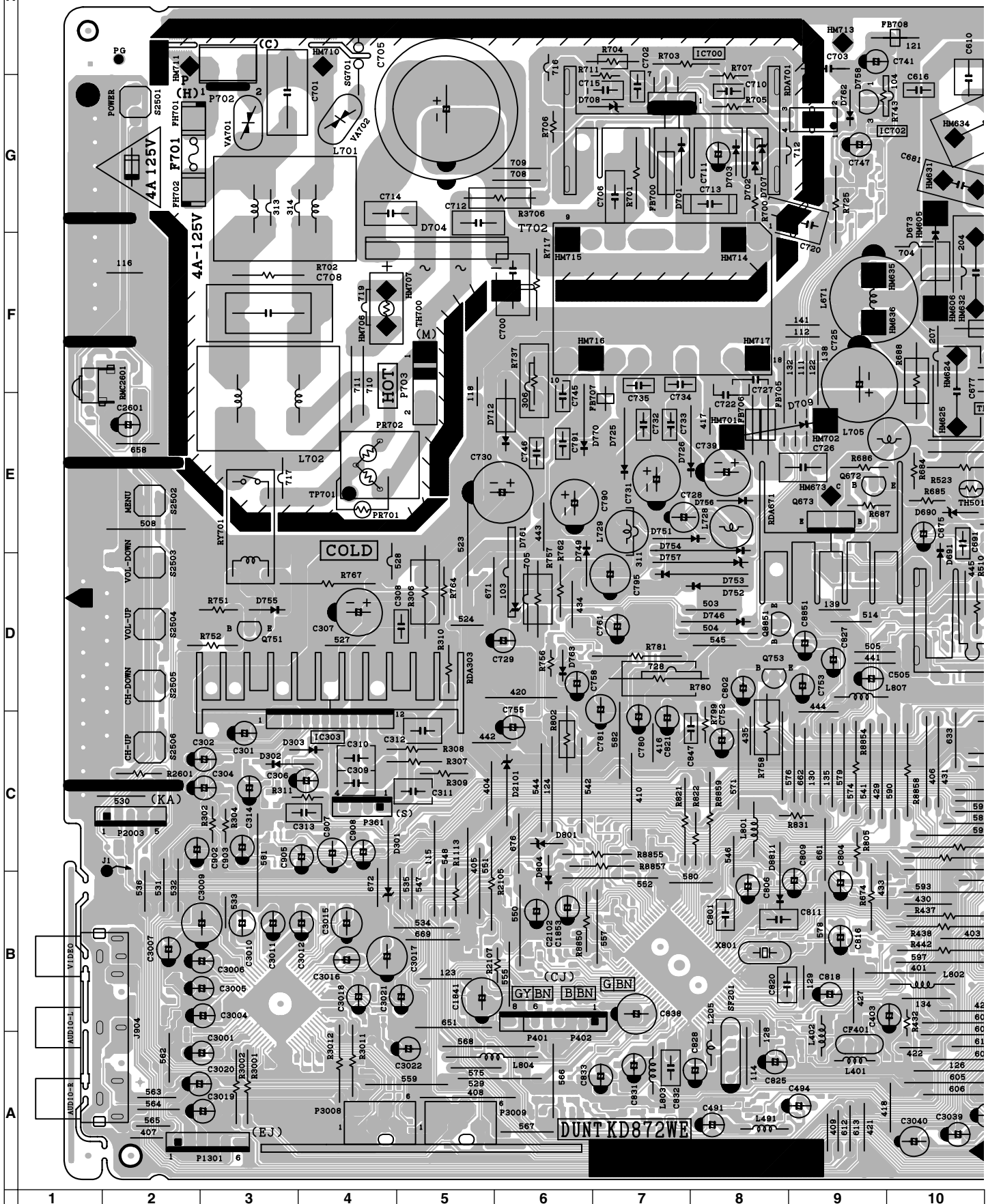


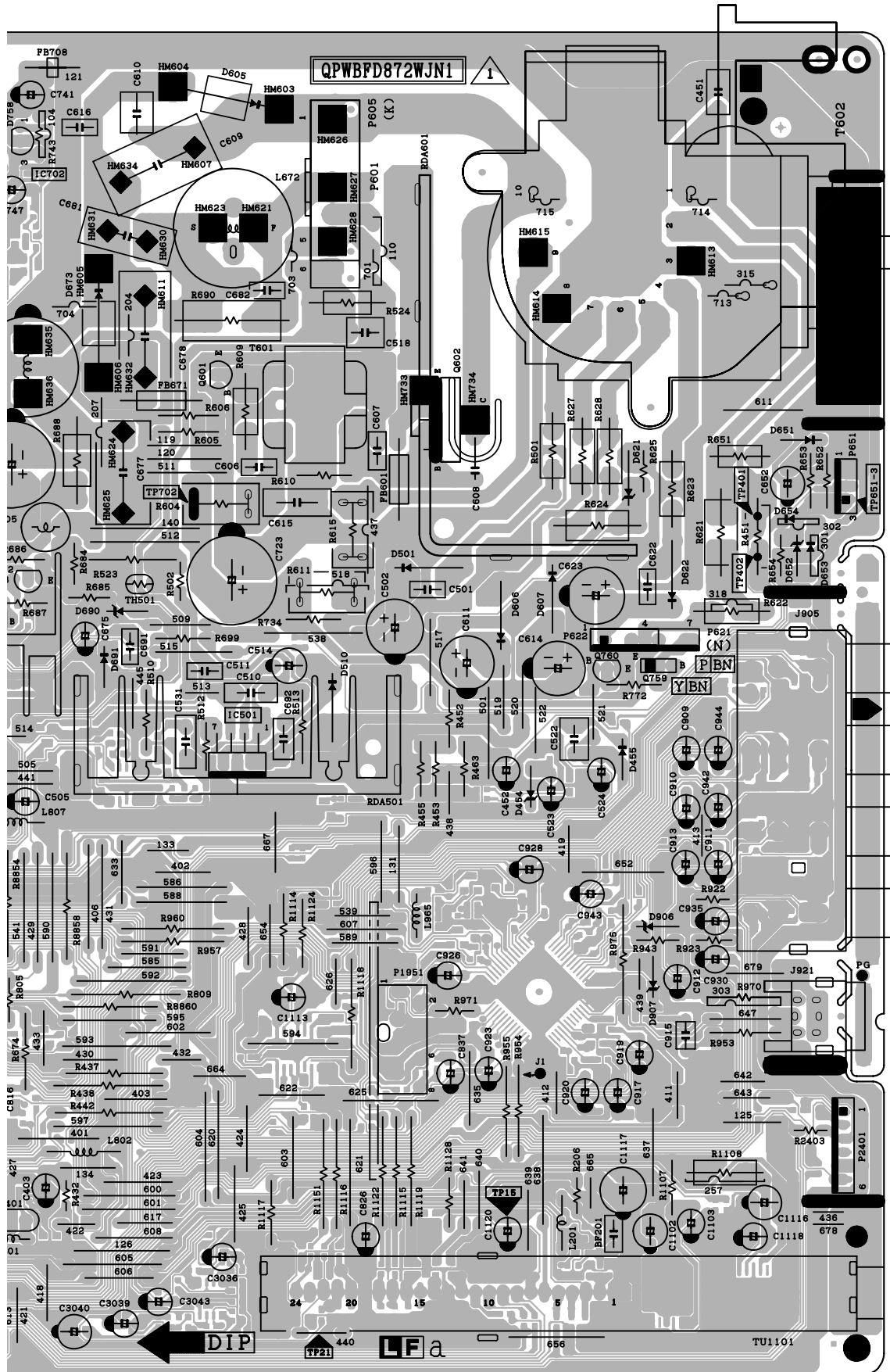
10	11	12	13	14	15	16	17	18	19
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# PRINTED WIRING BOARD ASSEMBLIES

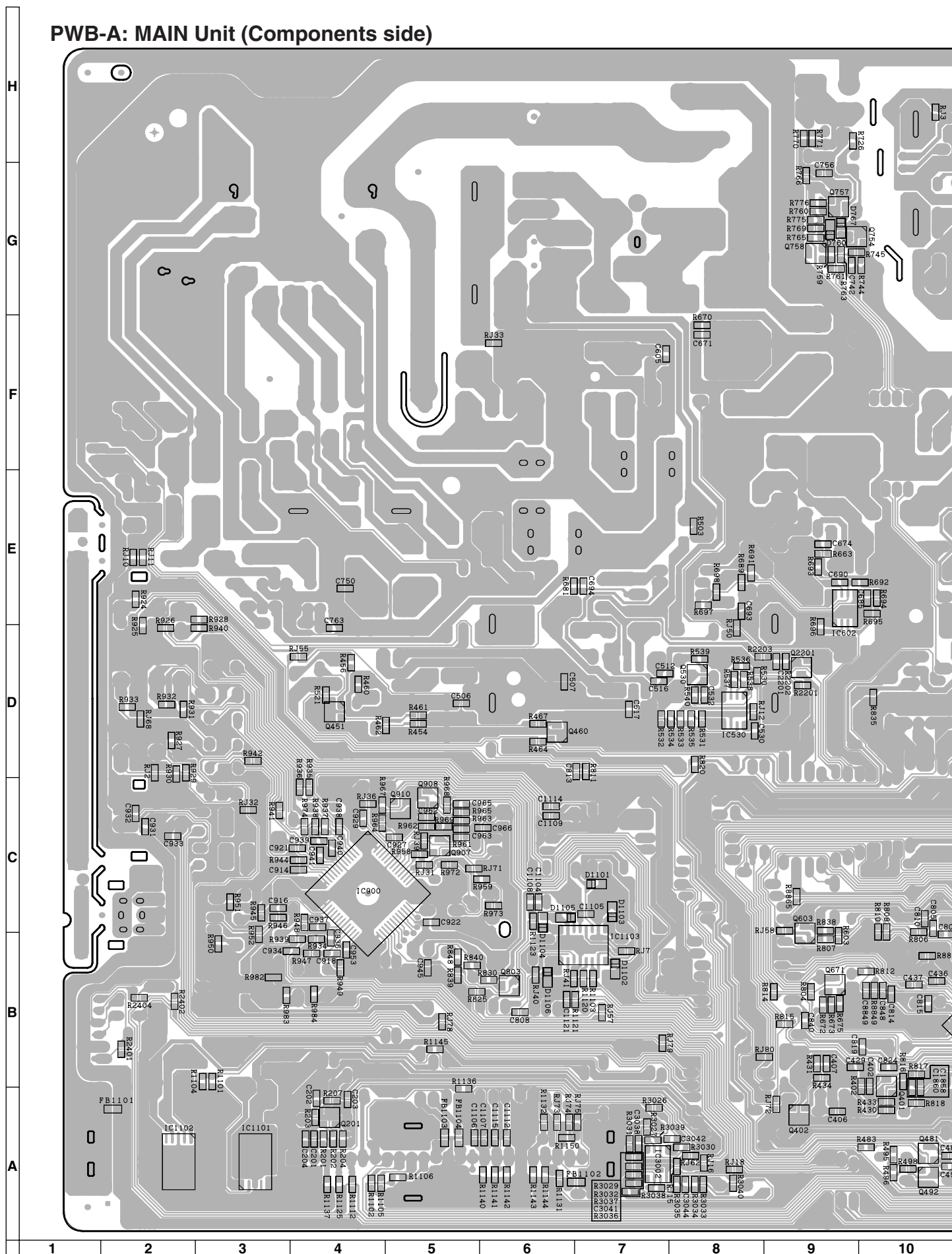
## PWB-A: MAIN Unit (Wiring Components Side)





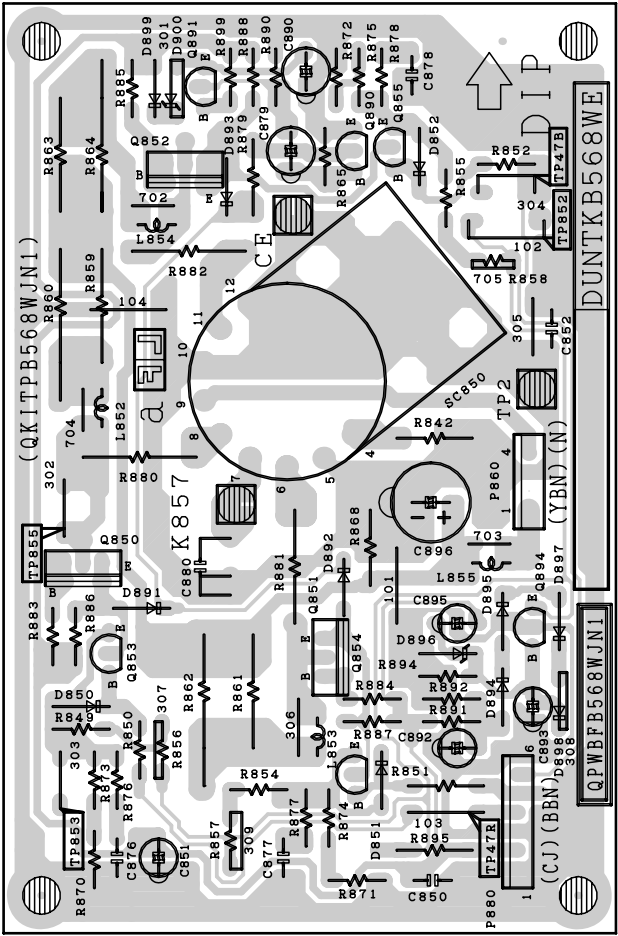
10	11	12	13	14	15	16	17	18	19
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### PWB-A: MAIN Unit (Components side)

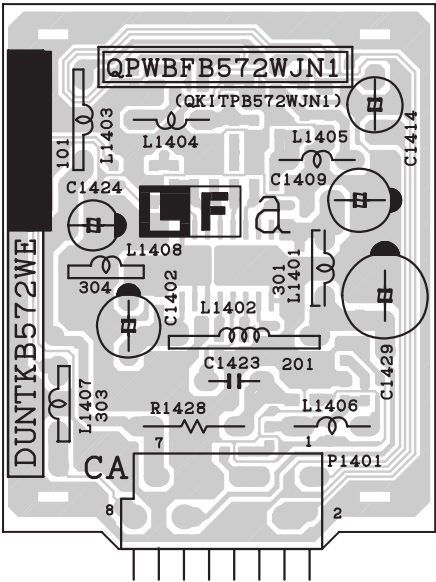




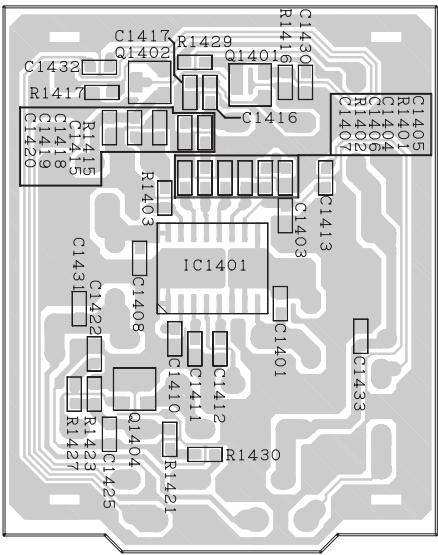
H  
G  
F  
E  
D  
C  
B  
A



PWB-B: CRT Unit (Wiring Side)



PWB-D: 2-LINE Y/C Unit (Wiring Side)



PWB-D: 2-LINE Y/C Unit (Chip Parts Side)



# PARTS LIST

## PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by  $\Delta$  and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

### "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- |                 |                |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO.    |
| 3. PART NO.     | 4. DESCRIPTION |

in **USA**: Contact your nearest SHARP Parts Distributor to order.  
For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

« MARK: SPARE PARTS-DELIVERY SECTION

p MARK: X-RAY RELATED PARTS

Ref. No.	Part No.	★	Description	Code
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## PICTURE TUBE

▲ $\Delta$ V101	VB68AGA20X/5E	X	Picture Tube	CD
	RCILGA137WJN1	X	Degaussing Coil	AN
	QEARCA027WJZZ	X	EARTH PARTS	AG

## PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

PWB-A	DUNTKD872WEA1	—	MAIN Unit	—
PWB-B	DUNTKB568WEA0	—	CRT Unit	—
PWB-D	DUNTKB572WEA1	—	2-LINE Y/C Unit	—

Ref. No.	Part No.	★	Description	Code
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## PWB-A: DUNTKD872WEA1 MAIN UNIT

### TUNER

**NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY**

TU1101	RTUDAA006WJQZ	X	Tuner	BT
<b>INTEGRATED CIRCUITS</b>				
$\Delta$ IC303	VHILA42102A-1	X	LA42102A-E	AH
$\Delta$ IC501	VHILA78041+-1	X	LA78041-E	AH
IC530	VHIIHA17358B-1Y	X	HA17358B	AC
IC602	VHIIHA17358B-1Y	X	HA17358B	AC
$\Delta$ IC700	VHISTRW6535-1	X	STR-W6535A LF	AM
$\Delta$ IC702	RH-FXA003WJZZ	X	PC123Y82	AC
IC751	VHIPQ090DNA-1Y	X	PQ090DNA1ZPH	AE
IC752	VHIBA50B0WP-1Y	X	BA50BC0WFP-E2	AF
IC801	RH-IXB945WJQZQ	X	R2J10165GF-A22FP	AU
IC900	VHICXA2089Q-2Y	X	CXA2089Q-6T	AM
IC901	VHIBH3544F+-1Y	X	BH3544F-E2	AE
IC1101	VHIPQ033DNA-1Y	X	PQ033DNA1ZPH	AE
IC1102	VHIBA50B0WP-1Y	X	BA50BC0WFP-E2	AF
IC1103	VHITL52055D-1Y	X	TL52055DR	AE
IC2101	VHIBR24L16F-1Y	X	BR24L16F	AE
IC2102	VHIBD4845G+-1Y	X	BD4845G-TR	AC
IC3001	VHICXA2194Q-1Y	X	CXA2194Q	AS
IC3002	VHIIHA17358B-1Y	X	HA17358B	AC

### TRANSISTORS

Q201	VS2SC2735//1EY	X	2SC2735	AB
Q301	VS2SA1530AR-1Y	X	2SA1530A	AA
Q402	VS2SA1530AR-1Y	X	2SA1530A	AA
Q451	VS2SA1530AR-1Y	X	2SA1530A	AA
Q460	VSRT1N441C/-1Y	X	RT1N441C	AA
Q530	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q601	VS2SC2482//1+	X	2SC2482	AC
Q602	VS2SC6089++-F	X	2SC6089-YD	AH
Q603	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q671	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q672	VS2SA1266-Y-1+	X	2SA1266(Y)	AA
Q673	VS2SD1830//1E	X	2SD1830	AF
$\Delta$ Q751	VS2SC3198-G-1+	X	2SC3198-G	AA
Q752	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q753	VS2SD468-C/-1+	X	2SD468ACTZ	AB
Q755	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q757	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q758	VS2SA1530AR-1Y	X	2SA1530A	AA
Q802	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q803	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q907	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q908	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q910	VS2SA1530AR-1Y	X	2SA1530A	AA
Q2201	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q3001	VS2SC3928AR-1Y	X	2SC3928AR	AA
Q8851	VS2SD468-C/-1+	X	2SD468ACTZ	AB

### DIODES

D301	RH-EX0611GEZZY	X	Zener	Diode	5.1V	AB
D302	VHDHSS4148+-1Y	X	Diode			AA
D303	VHDHSS4148+-1Y	X	Diode			AA
D454	RH-EX0628GEZZY	X	Zener	Diode	8.2V	AB
D455	VHDHSS4148+-1Y	X	Diode			AA
D501	RH-DX0302CEZZY	X	Diode			AC
D510	RH-DX0441CEZZY	X	Diode			AB
$\Delta$ D605	RH-DX0255CEZZ	X	Diode			AF
$\Delta$ D606	RH-DX0302CEZZY	X	Diode			AC
$\Delta$ D607	RH-DX0471CEZZY	X	Diode			AC
D621	RH-EX0614GEZZY	X	Zener	Diode	5.6V	AB
$\Delta$ D622	RH-DX0131CEZZY	X	Diode			AB
▲ $\Delta$ D651	VHD1SS244//1Y	X	Diode			AB
▲ $\Delta$ D652	RH-EX0641GEZZY	X	Zener	Diode	12V	AB

Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTKD872WEA1</b>				
<b>MAIN UNIT</b>				
<b>DIODES</b>				
▲ △	D653	VHDHSS4148+-1Y	X Diode	AA
▲ △	D654	VHDHSS4148+-1Y	X Diode	AA
△	D673	RH-DXA006WJZZ	X Diode	AD
	D691	VHDHSS4148+-1Y	X Diode	AA
	D702	VHDHSS4148+-1Y	X Diode	AA
	D703	VHD1SS244/-1Y	X Diode	AB
△	D704	RH-DX0476CEZZ	X Diode	AE
	D708	RH-EX0621GEZZY	X Zener	AB
△	D709	RH-DXA006WJZZ	X Diode	AD
	D712	RH-DX0468CEZZ	X Diode	AD
	D725	RH-DX0302CEZZY	X Diode	AC
	D726	RH-DX0406CEZZY	X Diode	AC
	D751	VHDHSS4148+-1Y	X Diode	AA
	D752	VHDHSS4148+-1Y	X Diode	AA
	D753	VHDHSS4148+-1Y	X Diode	AA
	D754	VHDHSS4148+-1Y	X Diode	AA
	D755	VHDHSS4148+-1Y	X Diode	AA
	D756	VHDHSS4148+-1Y	X Diode	AA
	D757	RH-EX0624GEZZY	X Zener Diode	AB
△	D758	VHIMM1431AT-1+	X MM1431ATT	AC
	D761	RH-EX0611GEZZY	X Zener Diode	5.1V AB
	D762	VHDHSS4148+-1Y	X Diode	AA
	D770	RH-DX0406CEZZY	X Diode	AC
	D801	RH-EX0627GEZZY	X Zener Diode,	8.2V AB
	D802	RH-EX1034CEZZY	X Diode	AB
	D803	RH-EX1034CEZZY	X Diode	AB
	D804	VHDHSS4148+-1Y	X Diode	AA
	D807	RH-EX0263TAZZY	X EX0263TA	AB
	D808	RH-EX0263TAZZY	X EX0263TA	AB
	D809	RH-EX0263TAZZY	X EX0263TA	AB
	D906	RH-EX0631GEZZY	X Zener Diode	9.1V AB
	D907	RH-EX0631GEZZY	X Zener Diode	9.1V AB
	D2101	RH-EX0609GEZZY	X Zener Diode	4.8V AB
<b>PACKAGED CIRCUITS</b>				
	TH501	RH-HZ0004GEZZ+	X Thermistor	AD
	TH700	RH-HXA014WJZZ+	X Thermistor	AD
△	VA701	RH-VXA021WJZZ	X Varistor	AC
△	VA702	RH-VXA021WJZZ	X Varistor	AC
△	PR701	RMPTP0092CEZZ	X Packaged Circuit	AF
	X801	RCRSAA019WJZZ	X Crystal	AE
<b>FILTERS AND COILS</b>				
	CF401	RFILC0446CEZZ+	X Filter	AC
	L201	VP-XF1R2K0000Y	X Peaking, 1.2mH	AA
	L401	VP-XF100K0000Y	X Peaking, 10mH	AA
	L671	RCILZ1005CEZZ	X LZ1005CE	AG
	L672	RCILZA057WJZZ	X Coil	AG
△	L701	RCILF0345CEZZ	X Coil	AF
△	L702	RCILF0345CEZZ	X Coil	AF
	L705	RCILP0177CEZZ+	X Oscillation Coil	AB
	L728	RCILP0179CEZZ+	X Coil	AB
	L729	RCILP0179CEZZ+	X Coil	AB
	L801	VP-DF100K0000Y	X Peaking, 10mH	AB
	L802	VP-DF100K0000Y	X Peaking, 10mH	AB
	L803	VP-DF220K0000Y	X Peaking 22uH	AB
	L804	VP-DF100K0000Y	X Peaking, 10mH	AB
	L807	VP-DF100K0000Y	X Peaking, 10mH	AB
	SF201	RFILCA055WJQZS	X Crystal	AE
<b>TRANSFORMERS</b>				
△	T601	RTRNZ0057PEZZ	X Transformer	AF
▲ △	T602	RTRNFA106WJZZ	X Flyback Transformer	AW
△	T702	RTRNWA268WJQZ	X Transformer	AP

Ref. No.	Part No.	★	Description	Code
<b>CAPACITORS</b>				
<b>[EL... Electrolytic, M-Poly... Metalized Polypro Film]</b>				
C201	VCKYCY1HB102KY	X	1000p 50V	Ceramic AA
C202	VCKYCY1HB103KY	X	0.01 50V	Ceramic AA
C203	VCKYCY1HB102KY	X	1000p 50V	Ceramic AA
C204	VCCCCY1HH5R0CY	X	5p 50V	Ceramic AA
C301	VCEA0A1EW476M+	X	47 25V	EL. AA
C302	VCEA0A1HW105M+	X	1 50V	EL. AA
C304	VCEA0A1HW105M+	X	1 50V	EL. AA
C306	VCEA0A1CW106M+	X	10 16V	EL. AA
C307	VCEA0A1EW108M+	X	1000 25V	EL. AC
C308	VCKYPA1HF103Z+	X	0.01 50V	Ceramic AA
C309	VCQYTA1HM104J+	X	0.1 50V	Mylar AB
C310	VCQYTA1HM104J+	X	0.1 50V	Mylar AB
C311	VCQYTA1HM104J+	X	0.1 50V	Mylar AB
C312	VCQYTA1HM104J+	X	0.1 50V	Mylar AB
C313	VCQYTA1HM104J+	X	0.1 50V	Mylar AB
C314	VCEA0A1CW107M+	X	100 16V	EL. AA
C403	VCEA0A1EW476M+	X	47 25V	EL. AA
C406	VCCCCY1HH220JY	X	22p 50V	Ceramic AA
C407	VCCCCY1HH101JY	X	100p 50V	Ceramic AA
C429	VCKYCY1HB103KY	X	0.01 50V	Ceramic AA
C436	VCKYCY1CF104ZY	X	0.1 16V	Ceramic AA
C437	VCKYCY1CF104ZY	X	0.1 16V	Ceramic AA
C451	VCQYTA2AA104K+	X	0.1 100V	Mylar AB
C452	VCEA0A1EW336M+	X	33 25V	EL. AA
C501	VCKYPA2HB102K+	X	1000p 500V	Ceramic AA
C502	VCEA0A1VW477M+	X	470 35V	EL. AC
C505	VCEA0A1AW107M+	X	100 10V	EL. AA
C506	VCKYCY1HB103KY	X	0.01 50V	Ceramic AA
C507	VCKYCY1HB103KY	X	0.01 50V	Ceramic AA
C510	RC-FZ0272CEZZ+	X	0.39 100V	Mylar AC
C511	VCCSPA2HL7R0D+	X	7p 500V	Ceramic AB
C512	VCKYCY1HB102KY	X	1000p 50V	Ceramic AA
C514	VCEA0A1VW107M+	X	100 35V	EL. AB
C516	VCKYCY1HB472KY	X	100 35V	EL. AA
C517	VCKYCY1HF103ZY	X	0.01 50V	Ceramic AA
C518	VCQYTA2AA473J+	X	0.047 100V	Mylar AB
C522	VCFYFA1HA334J+	X	0.33 50V	Mylar AB
C523	VCEA0A1HW105M+	X	1 50V	EL. AA
C524	VCEA0A1HW475M+	X	4.7 50V	EL. AA
C530	VCKYCY1CF104ZY	X	0.1 16V	Ceramic AA
C531	VCFYFA1HA474J+	X	0.47 50V	Mylar AB
C532	VCKYCY1HB103KY	X	0.01 50V	Ceramic AA
C533	VCKYCY1CF104ZY	X	0.1 16V	Ceramic AA
C606	VCKYPA2HB561K+	X	560p 500V	Ceramic AB
C607	VCKYPA1HB472K+	X	4700p 50V	Ceramic AA
C608	RC-KZ0033CEZZ	X	150p 2kV	Ceramic AB
△ C609	VCFPVC3ZA203H	X	0.02 1500V	Ceramic AD
C611	VCEA0A1EW477M+	X	470 25V	EL. AB
C614	VCEA0A1EW108M+	X	1000 25V	EL. AC
C615	VCFYFSA2EB823J	X	0.082 250V	M.Poly.. AB
C616	VCKYPA2HB471K+	X	470p 500V	Ceramic AA
C622	VCKYPA2HB102K+	X	1000p 500V	Ceramic AA
C623	VCEA4A2EN106M+	X	10 250V	EL. AD
C652	VCEA0A1HW476M+	X	47 50V	EL. AB
C674	VCKYCY1HB391KY	X	390p 50V	Ceramic AA
C675	VCEA0A1HW106M+	X	10 50V	EL. AA
C677	RC-FZA178WJZZ	X	4.7 63V	M.Poly. AE
△ C678	VCQPPC2GB563J	X	0.056 400V	Mylar AC
C681	VCFPFA2EB434J	X	0.43 250V	Ceramic AC
C682	VCKYPA2HB102K+	X	1000p 500V	Ceramic AA
C685	VCKYCY1CB333KY	X	33000p 16V	Ceramic AA
C692	VCFYFA1HA104J+	X	0.1 50V	M-Poly. AB
C693	VCKYCY1HF473ZY	X	0.047 50V	Ceramic AA
C694	VCKYCY1HB223KY	X	22000p 50V	Ceramic AA
△ C700	RC-KZ0103GEZZ	X	1000p 250V	Ceramic AB
△ C701	RC-FZA146WJZZ	X	0.33 AC275V	M.Poly. AC
C702	VCQYTA1HM682J+	X	6800P 50V	Mylar AA



Ref. No. Part No. ★ Description Code

## PWB-A: DUNTKD872WEA1 MAIN UNIT

### CAPACITORS

[EL... Electrolytic, M-Poly... Metalized Polypro Film]

△	C703	RC-KZ0092GEZZA	X	3300p	AC250V	Ceramic	AC
△	C705	RC-EZ0719CEZZ	X	560	200V	EL.	AH
	C708	RC-FZA146WJZZ	X	0.33	AC275V	M.Poly.	AC
	C710	VCFYFA1HA103J+	X	0.1	50V	M.Poly.	AB
	C711	VCEA0A1HW476M+	X	47	50V	EL.	AB
	C712	RC-KZ018JCEZZ	X	0.01	AC250V	Ceramic	AB
	C713	RC-KZA279WJZZ	X	2200p	2kV	Ceramic	AD
	C714	RC-KZ018JCEZZ	X	0.01	AC250V	Ceramic	AB
	C715	VCQYTA1HM104J+	X	0.1	50V	M.Poly.	AB
△	C723	RC-EZ0724CEZZ	X	100	160V	EL.	AE
△	C725	RC-EZA064WJZZ	X	220	160V	EL.	AF
	C726	RC-KZ0226CEZZ+	X	560p	2kV	Ceramic	AB
	C729	VCEA0A1HW106M+	X	10	50V	EL.	AA
	C730	VCEA0A1EW108M+	X	1000	25V	EL.	AC
	C731	RC-EZ0385CEZZ+	X	1000	16V	EL.	AD
	C732	VCKYPA2HB102K+	X	1000p	500V	Ceramic	AA
	C733	VCKYPA2HB102K+	X	1000p	500V	Ceramic	AA
	C739	RC-EZ0385CEZZ+	X	1000	16V	EL.	AD
	C741	VCEA4A2AN105M+	X	1	100V	EL.	AB
	C746	VCKYPA2HB102K+	X	1000p	500V	Ceramic	AA
	C747	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
	C750	VCKYCY1HF103ZY	X	0.01	50V	Ceramic	AA
	C752	VCEA0A1CW476M+	X	47	16V	EL.	AA
	C753	VCEA0A1CW476M+	X	47	16V	EL.	AA
	C755	VCEA0A1EW476M+	X	47	25V	EL.	AA
	C756	VCKYCY1HB683KY	X	0.068	50V	Ceramic	AB
	C780	VCEA0A1AW476M+	X	47	10V	EL.	AA
	C781	VCEA0A1AW477M+	X	470	10V	EL.	AB
	C790	VCEA0A1CW108M+	X	1000	16V	EL.	AC
	C791	VCKYPA2HB102K+	X	1000p	500V	Ceramic	AA
	C801	VCFYFA1HA154J+	X	0.15	50V	Ceramic	AB
	C802	VCEA0A1AW107M+	X	100	10V	EL.	AA
	C803	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
	C804	VCEA0A1HW474M+	X	0.47	50V	EL.	AA
	C805	VCKYCY1HB153KY	X	0.015	50V	Ceramic	AA
	C806	VCEA0A1CW476M+	X	47	16V	EL.	AA
	C807	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
	C808	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
	C809	VCEA0A1CW476M+	X	47	16V	EL.	AA
	C810	VCKYCY1HF103ZY	X	0.01	50V	Ceramic	AA
	C811	VCFYFA1HA104J+	X	0.1	50V	M-Poly.	AB
	C813	VCKYCY1HB271KY	X	270p	50V	Ceramic	AA
	C814	VCKYCY1CB563KY	X	0.056	16V	Ceramic	AA
	C815	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
	C816	VCEA0A1HW474M+	X	0.47	50V	EL.	AA
	C818	VCEA0A1CW476M+	X	47	16V	EL.	AA
	C819	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
	C820	VCFYFA1HA104J+	X	0.1	50V	M-Poly.	AB
	C821	VCEA0A1HW105M+	X	1	50V	EL.	AA
	C824	VCKYCY1CF105ZY	X	1	16V	Ceramic	AA
	C825	VCEA0A1HW474M+	X	0.47	50V	EL.	AA
	C826	VCEA0A1HW105M+	X	1	50V	EL.	AA
	C827	VCEA0A1HW105M+	X	1	50V	EL.	AA
	C828	VCEA0A1HW474M+	X	0.47	50V	EL.	AA
	C830	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
	C831	VCEA0A1CW227M+	X	220	16V	EL.	AB
	C832	VCFYFA1HA104J+	X	0.1	50V	M-Poly.	AB
	C833	VCEA0A1HW104M+	X	0.1	50V	EL.	AA
	C834	VCKYCY1CF104ZY	X	0.1	16V	Ceramic	AA
	C837	VCEA0A1CW226M+	X	22	16V	EL.	AA
	C838	VCEA0A1CW477M+	X	470	16V	EL.	AB
	C839	VCKYCY1HF103ZY	X	0.01	50V	Ceramic	AA

Ref. No. Part No. ★ Description Code

C840	VCKYCY1HB104KY	X	0.1	50V	Ceramic	AA
C841	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C842	VCKYCY1HF224ZY	X	0.22	50V	Ceramic	AA
C843	VCKYCY1HB104KY	X	0.1	50V	Ceramic	AA
C844	VCKYCY1HB102KY	X	1000p	50V	Ceramic	AA
C845	VCKYCY1HB221KY	X	220p	50V	Ceramic	AA
C846	VCKYCY1CF105ZY	X	1	16V	Ceramic	AA
C847	VCKYPA1HB471K+	X	470p	50V	Ceramic	AA
C848	VCKYCY1HB104KY	X	0.1	50V	Ceramic	AA
C901	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C902	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C903	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C904	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C905	VCEA0A1CW476M+	X	47	16V	EL.	AA
C906	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C907	VCEA0A1AW477M+	X	470	10V	EL.	AB
C908	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C909	VCEA0A1HW105M+	X	1	50V	EL.	AA
C910	VCEA0A1HW105M+	X	1	50V	EL.	AA
C911	VCEA0A1HW105M+	X	1	50V	EL.	AA
C912	VCEA0A1HW105M+	X	1	50V	EL.	AA
C913	VCEA0A1HW105M+	X	1	50V	EL.	AA
C914	VCKYCY1HB681KY	X	680p	50V	Ceramic	AA
C915	VCKYPA1HF103Z+	X	0.01	50V	Ceramic	AA
C916	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C917	VCEA0A1HW105M+	X	1	50V	EL.	AA
C918	VCKYCY1HB681KY	X	680p	50V	Ceramic	AA
C919	VCEA0A1HW105M+	X	1	50V	EL.	AA
C920	VCEA0A1HW105M+	X	1	50V	EL.	AA
C921	VCKYCY1HB681KY	X	680p	50V	Ceramic	AA
C922	VCKYCY1CF104ZY	X	0.1	16V	Ceramic	AA
C923	VCEA0A1CW107M+	X	100	16V	EL.	AA
C926	VCEA0A1EW476M+	X	47	25V	EL.	AA
C928	VCEA0A1HW105M+	X	1	50V	EL.	AA
C930	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C934	VCKYCY1HB104KY	X	0.1	50V	Ceramic	AA
C935	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C936	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C937	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C938	VCKYCY1HB681KY	X	680p	50V	Ceramic	AA
C939	VCKYCY1HB681KY	X	680p	50V	Ceramic	AA
C940	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C941	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C942	VCEA0A1HW105M+	X	1	50V	EL.	AA
C943	VCEA0A1HW105M+	X	1	50V	EL.	AA
C944	VCEA0A1HW105M+	X	1	50V	EL.	AA
C953	VCKYCY1HB681KY	X	680p	50V	Ceramic	AA
C962	VCCCCY1HB470JY	X	47p	50V	Ceramic	AA
C1013	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1102	VCEA0A1AW477M+	X	470	10V	EL.	AB
C1103	VCEA0A1CW476M+	X	47	16V	EL.	AA
C1104	VCKYCY0JF105ZY	X	1	6.3V	Ceramic	AA
C1105	VCKYCY1CF104ZY	X	0.1	16V	Ceramic	AA
C1106	VCKYCY0JF105ZY	X	1	6.3V	Ceramic	AA
C1107	VCKYCY0JF105ZY	X	1	6.3V	Ceramic	AA
C1108	VCKYCY0JF105ZY	X	1	6.3V	Ceramic	AA
C1109	VCKYCY0JF105ZY	X	1	6.3V	Ceramic	AA
C1112	VCKYCY0JF105ZY	X	1	6.3V	Ceramic	AA
C1113	VCEA0A1CW476M+	X	47	16V	EL.	AA
C1114	VCKYCY0JF105ZY	X	1	6.3V	Ceramic	AA
C1115	VCKYCY0JF105ZY	X	1	6.3V	Ceramic	AA
C1116	VCEA0A1AW477M+	X	470	10V	EL.	AB
C1117	VCEA0A0JW108M+	X	1000	6.3V	EL.	AB
C1118	VCEA0A1CW476M+	X	47	16V	EL.	AA
C1120	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C1841	VCEA0A1CW477M+	X	470	16V	EL.	AB
C1842	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1852	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1853	VCEA0A1CW476M+	X	47	16V	EL.	AA

Ref. No.	Part No.	★	Description	Code
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## PWB-A: DUNTKD872WEA1

### MAIN UNIT

#### CAPACITORS

[EL... Electrolytic, M-Poly... Metalized Polypro Film]

C1858	VCCCCY1HH220JY	X	22p	50V	Ceramic	AA
C1860	VCCCCY1HH220JY	X	22p	50V	Ceramic	AA
C2101	VCKYCY1CF104ZY	X	0.1	16V	Ceramic	AA
C2102	VCEA0A1EW476M+	X	47	25V	EL.	AA
C2103	VCKYCY1HB472KY	X	100	35V	EL.	AA
C2201	VCKYCY1HB681KY	X	680p	50V	Ceramic	AA
C2601	VCEA0A1EW476M+	X	47	25V	EL.	AA
C2602	VCCCCY1HH101JY	X	100p	50V	Ceramic	AA
C3001	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3002	VCKYCY1HB562KY	X	5600p	50V	Ceramic	AA
C3003	VCKYCY1EB123KY	X	0.012	25V	Ceramic	AA
C3004	VCEA0A1HW105M+	X	1	50V	EL.	AA
C3005	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3006	VCEA0A1HW106M+	X	10	50V	EL.	AA
C3007	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3008	VCKYCY1CF104ZY	X	0.1	16V	Ceramic	AA
C3009	VCEA0A1CW477M+	X	470	16V	EL.	AB
C3010	VCE9GA1HW475M+	X	4.7	50V	EL.	AB
C3011	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3012	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3013	VCKYCY1HB272KY	X	2700p	50V	Ceramic	AA
C3014	VCKYCY1CB473KY	X	0.047	16V	Ceramic	AA
C3015	VCEACA1HC335K+	X	3.3	50V	EL.	AC
C3016	VCE9GA1HW475M+	X	4.7	50V	EL.	AB
C3017	VCEACA1CC106K+	X	10	16V	EL.	AC
C3018	VCEA0A1HW105M+	X	1	50V	EL.	AA
C3019	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3020	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3021	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3022	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3025	VCKYCY1CB473KY	X	0.047	16V	Ceramic	AA
C3027	VCKYCY1CB473KY	X	0.047	16V	Ceramic	AA
C3028	VCKYCY1HB682KY	X	6800p	50V	Ceramic	AA
C3029	VCKYCY1HB682KY	X	6800p	50V	Ceramic	AA
C3036	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3038	VCKYCY1HB102KY	X	1000p	50V	Ceramic	AA
C3039	VCEA0A1HW475M+	X	4.7	50V	EL.	AA
C3040	VCEA0A1AW227M+	X	220	10V	EL.	AB
C3041	VCKYCY1HB102KY	X	1000p	50V	Ceramic	AA
C3043	VCEA0A1CW106M+	X	10	16V	EL.	AA
C8851	VCEA0A1CW476M+	X	47	16V	EL.	AA
C8852	VCKYCY0JF105ZY	X	1	6.3V	Ceramic	AA
C8853	VCKYCY0JF105ZY	X	1	6.3V	Ceramic	AA
C8861	VCKYCY1HB821KY	X	820p	50V	Ceramic	AA

#### RESISTORS

[M-Ox... Metal Oxide, M-Film ... Metal Film]

RJ2	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ3	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ4	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ7	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ12	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ15	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ16	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ18	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ28	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ31	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ32	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ33	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ36	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ38	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ39	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ40	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA

Ref. No.	Part No.	★	Description	Code
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RJ41	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ46	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ47	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ48	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ49	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ50	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ53	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ55	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ58	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ61	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ62	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ63	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ64	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ65	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ66	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ67	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ68	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ71	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ72	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ73	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ74	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ76	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ77	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ78	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ79	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
RJ80	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R201	VRS-CY1JF151JY	X	150	1/16W	M-Ox.	AA
R202	VRS-CY1JF122JY	X	1.2k	1/16W	M-Ox.	AA
R203	VRS-CY1JF682JY	X	6.8k	1/16W	M-Ox.	AA
R204	VRS-CY1JF270JY	X	27	1/16W	M-Ox.	AA
R206	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R207	VRS-CY1JF331JY	X	330	1/16W	M-Ox.	AA
R301	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R302	VRD-RA2BE222JY	X	2.2k	1/8W	Carbon	AA
R303	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R304	VRD-RA2BE222JY	X	2.2k	1/8W	Carbon	AA
R305	VRS-CY1JF472JY	X	4.7k	1/16W	M-Ox.	AA
R306	VRN-RL3LB2R7J+	X	2.7	3W	M-Film	AC
R307	VRD-RM2HD2R2JY	X	2.2	1/2W	Carbon	AA
R308	VRD-RM2HD2R2JY	X	2.2	1/2W	Carbon	AA
R309	VRD-RM2HD2R2JY	X	2.2	1/2W	Carbon	AA
R310	VRD-RM2HD2R2JY	X	2.2	1/2W	Carbon	AA
R311	VRD-RA2BE222JY	X	2.2k	1/8W	Carbon	AA
R312	VRS-CY1JF222JY	X	2.2k	1/16W	M-Ox.	AA
R313	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R314	VRS-CY1JF562JY	X	5.6k	1/16W	M-Ox.	AA
R315	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R430	VRS-CY1JF471JY	X	470	1/16W	M-Ox.	AA
R431	VRS-CY1JF471JY	X	470	1/16W	M-Ox.	AA
R432	VRD-RA2BE102JY	X	1k	1/8W	Carbon	AA
R433	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R434	VRS-CY1JF221JY	X	220	1/16W	M-Ox.	AA
R437	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R438	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R442	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
△ R451	VRS-RG3AB103J+	X	10k	1W	M-Ox.	AB
R452	VRD-RM2HD563JY	X	56k	1/2W	Carbon	AA
R453	VRD-RM2HD393JY	X	39k	1/2W	Carbon	AA
R454	VRS-CY1JF471JY	X	470	1/16W	M-Ox.	AA
R455	VRD-RM2HD274JY	X	270k	1/2W	Carbon	AA
R456	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R460	VRS-CY1JF471JY	X	470	1/16W	M-Ox.	AA
R461	VRS-CY1JF562JY	X	5.6k	1/16W	M-Ox.	AA
R462	VRS-CY1JF223JY	X	22k	1/16W	M-Ox.	AA
R463	VRD-RA2EE680JY	X	68	1/4W	Carbon	AA
R464	VRS-CY1JF683JY	X	68k	1/16W	M-Ox.	AA
R467	VRS-CY1JF332JY	X	3.3k	1/16W	M-Ox.	AA
△ R501	VRN-RL3ABR47J+	X	0.47	1W	M-Film	AB
R502	VRN-RA2BK103FY	X	10k	1/8W	M-Film	AB

Ref. No. Part No. ★ Description Code

## PWB-A: DUNTKD872WEA1 MAIN UNIT

### RESISTORS

[M-Ox. --- Metal Oxide, M-Film --- Metal Film]

	R503	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R510	VRN-RA2BK103FY	X	10k	1/8W	M-Film	AB
	R512	VRN-RA2BK822FY	X	8.2k	1/8W	M-Film	AB
	R513	VRD-RM2HD1R0JY	X	1	1/2W	Carbon	AA
	R521	VRS-CY1JF473JY	X	47k	1/16W	M-Ox.	AA
△	R523	VRN-RL3DB1R5J+	X	1.5	2W	M-Film	AB
△	R524	VRS-RG3AB391J+	X	390	1W	M-Ox.	AB
	R530	VRS-CY1JF104FY	X	100k	1/16W	M-Ox.	AA
	R531	VRS-CY1JF332FY	X	3.3k	1/16W	M-Ox.	AA
	R532	VRS-CY1JF473JY	X	47k	1/16W	M-Ox.	AA
	R533	VRS-CY1JF103FY	X	10k	1/16W	M-Ox.	AA
	R534	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
	R535	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
	R536	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
	R538	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
	R539	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
	R540	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
	R541	VRS-CY1JF472JY	X	4.7k	1/16W	M-Ox.	AA
	R543	VRS-CY1JF333JY	X	33k	1/16W	M-Ox.	AA
	R603	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
△	R604	VRS-KA3NG562J	X	5.6k	7W	M-Ox.	AD
	R605	VRD-RM2HD331JY	X	330	1/2W	Carbon	AA
	R606	VRD-RM2HD331JY	X	330	1/2W	Carbon	AA
△	R609	VRS-RG3AB562J+	X	5.6k	1W	M-Ox.	AB
	R610	VRD-RM2HD150JY	X	15	1/2W	Carbon	AA
△	R615	VRS-KA3NG3R3K	X	3.3	7W	M-Ox.	AD
△	R621	VRN-RL3DB1R2J+	X	1.2	2W	M-Film	AB
	R623	VRN-RL3AB4R7J+	X	4.7	1W	M-Film	AB
△	R624	VRS-RG3DB182J+	X	1.8k	2W	M-Ox.	AB
	R625	VRD-RA2BE102JY	X	1k	1/8W	Carbon	AA
△	R627	VRN-RL3ABR47J+	X	0.47	1W	M-Film	AB
	R628	VRN-RL3ABR47J+	X	0.47	1W	M-Film	AB
▲ △	R651	VRS-RG2HC270J+	X	27	1/2W	M-Ox.	AA
▲ △	R652	VRD-RA2EE103GY	X	10k	1/4W	Carbon	AA
▲ △	R653	VRD-RA2EE472GY	X	4.7k	1/4W	Carbon	AA
	R663	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
	R672	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
	R673	VRS-CY1JF272JY	X	2.7k	1/16W	M-Ox.	AA
	R674	VRD-RA2BE472JY	X	4.7k	1/8W	Carbon	AA
	R675	VRS-CY1JF222JY	X	2.2k	1/16W	M-Ox.	AA
	R681	VRS-CY1JF563JY	X	56k	1/16W	M-Ox.	AA
	R684	VRD-RA2BE472JY	X	4.7k	1/8W	Carbon	AA
	R685	VRD-RA2BE822JY	X	8.2k	1/8W	Carbon	AA
	R686	VRD-RA2EE332JY	X	3.3k	1/4W	Carbon	AA
	R687	VRD-RA2BE103JY	X	10k	1/8W	Carbon	AA
△	R688	VRN-RL3DB3R3J+	X	3.3	2W	M-Film	AB
	R689	VRS-CY1JF274JY	X	270k	1/16W	M-Ox.	AA
△	R690	VRS-RG3LB471J+	X	470	3.0W	M-Ox.	AB
	R691	VRS-CY1JF394JY	X	390k	1/16W	M-Ox.	AA
	R692	VRS-CY1JF273JY	X	27k	1/16W	M-Ox.	AA
	R693	VRS-CY1JF683JY	X	68k	1/16W	M-Ox.	AA
	R694	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
	R695	VRS-CY1JF683JY	X	68k	1/16W	M-Ox.	AA
	R696	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
	R699	VRD-RA2BE333JY	X	33k	1/8W	Carbon	AA
	R700	VRD-RA2BE220JY	X	22	1/8W	Carbon	AA
	R703	VRD-RA2BE682JY	X	6.8k	1/8W	Carbon	AA
	R704	VRS-RG2HC221J+	X	220	1/2W	M-Ox.	AA
	R705	VRD-RA2BE102JY	X	1k	1/8W	Carbon	AA
	R707	VRD-RA2BE222JY	X	2.2k	1/8W	Carbon	AA
	R711	VRD-RA2BE393JY	X	39k	1/8W	Carbon	AA
△	R717	RR-HZ0014GEZZY	X	12M	1W	Carbon	AD

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	R725	VRD-RM2HD392JY	X	3.9k	1/2W	Carbon	AA
	R726	VRS-CY1JF182JY	X	1.8k	1/16W	M-Ox.	AA
	R743	VRD-RA2BE470JY	X	47	1/8W	Carbon	AA
	R751	VRD-RA2BE473JY	X	47k	1/8W	Carbon	AA
	R752	VRD-RA2BE392JY	X	3.9k	1/8W	Carbon	AA
	R753	VRS-CY1JF222JY	X	2.2k	1/16W	M-Ox.	AA
	R756	VRD-RA2BE152JY	X	1.5k	1/8W	Carbon	AA
△	R757	VRN-RL3DB4R7J+	X	4.7	2W	M-Film	AB
	R758	VRS-RG3DB121J+	X	120	2W	M-Ox.	AB
	R759	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
	R761	VRS-CY1JF332JY	X	3.3k	1/16W	M-Ox.	AA
	R763	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
	R764	VRD-RM2HD562JY	X	5.6k	1/2W	Carbon	AA
	R765	VRS-CY1JF124FY	X	120k	1/16W	Carbon	AA
	R766	VRS-CY1JF104JY	X	100k	1/16W	M-Ox.	AA
	R767	VRD-RM2HD680JY	X	68	1/2W	Carbon	AA
	R769	VRS-CY1JF124FY	X	120k	1/16W	M-Ox.	AA
	R770	VRS-CY1JF124JY	X	120k	1/16W	M-Ox.	AA
	R771	VRS-CY1JF472FY	X	4.7k	1/16W	M-Ox.	AA
	R775	VRS-CY1JF332JY	X	3.3k	1/16W	M-Ox.	AA
	R776	VRS-CY1JF332JY	X	3.3k	1/16W	M-Ox.	AA
△	R780	VRN-RL3LB2R7J+	X	2.7	3W	M-Film	AC
	R781	VRD-RA2BE393JY	X	39k	1/8W	Carbon	AA
	R799	VRD-RA2BE270JY	X	27	1/8W	Carbon	AA
	R801	VRS-CY1JF472JY	X	4.7k	1/16W	M-Ox.	AA
	R802	VRS-RG3AB271J+	X	270	1W	M-Ox.	AB
	R803	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R804	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R805	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
	R806	VRS-CY1JF822JY	X	8.2k	1/16W	M-Ox.	AA
	R807	VRS-CY1JF124JY	X	120k	1/16W	M-Ox.	AA
	R808	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R809	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
	R810	VRS-CY1JF472JY	X	4.7k	1/16W	M-Ox.	AA
	R811	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
	R812	VRS-CY1JF822JY	X	8.2k	1/16W	M-Ox.	AA
	R813	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R814	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R815	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R817	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
	R818	VRS-CY1JF220JY	X	22	1/16W	M-Ox.	AA
	R819	VRS-CY1JF223JY	X	22k	1/16W	M-Ox.	AA
	R820	VRS-CY1JF223JY	X	22k	1/16W	M-Ox.	AA
	R821	VRD-RA2BE682JY	X	6.8k	1/8W	Carbon	AA
	R822	VRD-RA2BE102JY	X	1k	1/8W	Carbon	AA
	R823	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R824	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R825	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
	R826	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
	R827	VRS-CY1JF181JY	X	180	1/16W	M-Ox.	AA
	R828	VRS-CY1JF181JY	X	180	1/16W	M-Ox.	AA
	R829	VRS-CY1JF181JY	X	180	1/16W	M-Ox.	AA
	R830	VRS-CY1JF333JY	X	33k	1/16W	M-Ox.	AA
	R832	VRS-CY1JF222JY	X	2.2k	1/16W	M-Ox.	AA
	R833	VRS-CY1JF222JY	X	2.2k	1/16W	M-Ox.	AA
	R834	VRS-CY1JF222JY	X	2.2k	1/16W	M-Ox.	AA
	R836	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R838	VRS-CY1JF472JY	X	4.7k	1/16W	M-Ox.	AA
	R839	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
	R840	VRS-CY1JF332JY	X	3.3k	1/16W	M-Ox.	AA
	R841	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R843	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R844	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
	R845	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
	R848	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
	R901	VRS-CY1JF221JY	X	220	1/16W	M-Ox.	AA
	R902	VRS-CY1JF221JY	X	220	1/16W	M-Ox.	AA
	R903	VRS-CY1JF822JY	X	8.2k	1/16W	M-Ox.	AA
	R904	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA



Ref. No.	Part No.	★	Description	Code
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## PWB-A: DUNTKD872WEA1

### MAIN UNIT

#### RESISTORS

[M-Ox. --- Metal Oxide, M-Film --- Metal Film]

R905	VRS-CY1JF104JY	X	100k	1/16W	M-Ox.	AA
R908	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R915	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R922	VRD-RA2BE102JY	X	1k	1/8W	Carbon	AA
R923	VRD-RA2BE102JY	X	1k	1/8W	Carbon	AA
R924	VRS-CY1JF750JY	X	75	1/16W	M-Ox.	AA
R925	VRS-CY1JF750JY	X	75	1/16W	M-Ox.	AA
R926	VRS-CY1JF680JY	X	68	1/16W	M-Ox.	AA
R927	VRS-CY1JF750JY	X	75	1/16W	M-Ox.	AA
R929	VRS-CY1JF473JY	X	47k	1/16W	M-Ox.	AA
R930	VRS-CY1JF473JY	X	47k	1/16W	M-Ox.	AA
R931	VRS-CY1JF750JY	X	75	1/16W	M-Ox.	AA
R932	VRS-CY1JF473JY	X	47k	1/16W	M-Ox.	AA
R933	VRS-CY1JF473JY	X	47k	1/16W	M-Ox.	AA
R934	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R935	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R936	VRS-CY1JF223JY	X	22k	1/16W	M-Ox.	AA
R937	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R938	VRS-CY1JF223JY	X	22k	1/16W	M-Ox.	AA
R939	VRS-CY1JF333JY	X	33k	1/16W	M-Ox.	AA
R940	VRS-CY1JF8R2JY	X	8.2	1/16W	M-Ox.	AA
R941	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R942	VRS-CY1JF223JY	X	22k	1/16W	M-Ox.	AA
R943	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R944	VRS-CY1JF223JY	X	22k	1/16W	M-Ox.	AA
R945	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R946	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R947	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R948	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R949	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R950	VRS-CY1JF560JY	X	56	1/16W	M-Ox.	AA
R951	VRS-CY1JF680JY	X	68	1/16W	M-Ox.	AA
R952	VRS-CY1JF333JY	X	33k	1/16W	M-Ox.	AA
R953	VRD-RA2BE220JY	X	22	1/8W	Carbon	AA
R954	VRD-RA2BE221JY	X	220	1/8W	Carbon	AA
R955	VRD-RA2BE221JY	X	220	1/8W	Carbon	AA
R957	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R958	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R959	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R960	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R961	VRS-CY1JF181FY	X	180	1/16W	M-Ox.	AA
R962	VRS-CY1JF101FY	X	100	1/16W	M-Ox.	AA
R963	VRS-CY1JF151FY	X	150	1/16W	M-Ox.	AA
R964	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R967	VRS-CY1JF682JY	X	6.8k	1/16W	M-Ox.	AA
R968	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R970	VRD-RA2BE6R8JY	X	6.8	1/8W	Carbon	AA
R971	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R972	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R973	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R974	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R975	VRD-RA2BE333JY	X	33k	1/8W	Carbon	AA
R977	VRS-CY1JF750JY	X	75	1/16W	M-Ox.	AA
R1092	VRS-CY1JF472JY	X	4.7k	1/16W	M-Ox.	AA
R1101	VRS-CY1JF393JY	X	39k	1/16W	M-Ox.	AA
R1102	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R1103	VRS-CY1JF470JY	X	47	1/16W	M-Ox.	AA
R1104	VRS-CY1JF393JY	X	39k	1/16W	M-Ox.	AA
R1105	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R1106	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R1112	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R1113	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA

Ref. No.	Part No.	★	Description	Code
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R1114	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R1115	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R1116	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R1118	VRD-RA2BE470JY	X	47	1/8W	Carbon	AA
R1119	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R1120	VRS-CY1JF470JY	X	47	1/16W	M-Ox.	AA
R1121	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R1122	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R1123	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R1124	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R1125	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R1128	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R1131	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R1132	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R1136	VRS-CY1JF393JY	X	39k	1/16W	M-Ox.	AA
R1137	VRS-CY1JF124JY	X	120k	1/16W	M-Ox.	AA
R1143	VRS-CY1JF104JY	X	100k	1/16W	M-Ox.	AA
R1144	VRD-RA2BE101JY	X	100k	1/16W	M-Ox.	AA
R1145	VRS-CY1JF472JY	X	4.7k	1/16W	M-Ox.	AA
R1150	VRS-CY1JF823JY	X	82k	1/16W	M-Ox.	AA
R2101	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R2102	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R2103	VRS-CY1JF562JY	X	5.6k	1/16W	M-Ox.	AA
R2104	VRS-CY1JF562JY	X	5.6k	1/16W	M-Ox.	AA
R2105	VRD-RA2BE102JY	X	1k	1/8W	Carbon	AA
R2106	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R2107	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R2201	VRS-CY1JF222JY	X	2.2k	1/16W	M-Ox.	AA
R2202	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R2203	VRS-CY1JF473JY	X	47k	1/16W	M-Ox.	AA
R2401	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R2402	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R2403	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R2404	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R2501	VRS-CY1JF183JY	X	18k	1/16W	M-Ox.	AA
R2502	VRS-CY1JF183JY	X	18k	1/16W	M-Ox.	AA
R2503	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R2504	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R2505	VRS-CY1JF822JY	X	8.2k	1/16W	M-Ox.	AA
R2506	VRS-CY1JF822JY	X	8.2k	1/16W	M-Ox.	AA
R2507	VRS-CY1JF183JY	X	18k	1/16W	M-Ox.	AA
R2508	VRS-CY1JF183JY	X	18k	1/16W	M-Ox.	AA
R2509	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R2601	VRD-RA2BE100JY	X	10	1/8W	Carbon	AA
R2603	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R2605	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R2606	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R3001	VRD-RA2BE221JY	X	220	1/8W	Carbon	AA
R3002	VRD-RA2BE221JY	X	220	1/8W	Carbon	AA
R3003	VRS-CY1JF105JY	X	1M	1/16W	M-Ox.	AA
R3004	VRS-CY1JF104JY	X	100k	1/16W	M-Ox.	AA
R3005	VRS-CY1JF623JY	X	62k	1/16W	M-Ox.	AA
R3007	VRS-CY1JF332JY	X	3.3k	1/16W	M-Ox.	AA
R3008	VRS-CY1JF302JY	X	3k	1/16W	M-Ox.	AA
R3010	VRS-CY1JF392JY	X	3.9k	1/16W	M-Ox.	AA
R3011	VRD-RA2BE123JY	X	12k	1/8W	Carbon	AA
R3012	VRD-RA2BE123JY	X	12k	1/8W	Carbon	AA
R3017	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R3018	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R3024	VRS-CY1JF222JY	X	2.2k	1/16W	M-Ox.	AA
R3025	VRS-CY1JF122JY	X	1.2k	1/16W	M-Ox.	AA
R3027	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R3029	VRS-CY1JF153JY	X	15k	1/16W	M-Ox.	AA
R3030	VRS-CY1JF473JY	X	47k	1/16W	M-Ox.	AA
R3031	VRS-CY1JF474JY	X	470k	1/16W	M-Ox.	AA
R3032	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R3033	VRS-CY1JF474JY	X	470k	1/16W	M-Ox.	AA
R3034	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R3035	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA

Ref. No. Part No. ★ Description Code

## PWB-A: DUNTKD872WEA1 MAIN UNIT

### RESISTORS

[M-Ox. ... Metal Oxide, M-Film ... Metal Film]

R3036	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R3037	VRS-CY1JF153JY	X	15k	1/16W	M-Ox.	AA
R3038	VRS-CY1JF473JY	X	47k	1/16W	M-Ox.	AA
R3039	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R3706	VRS-VV3DB104J	X	100k	2W	M-Ox.	AA
R8842	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R8848	VRS-CY1JF154JY	X	150k	1/16W	M-Ox.	AA
R8849	VRS-CY1JF105JY	X	1M	1/16W	M-Ox.	AA
R8850	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R8851	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R8852	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R8853	VRS-CY1JF101JY	X	100	1/16W	M-Ox.	AA
R8854	VRD-RA2BE333JY	X	33k	1/8W	Carbon	AA
R8855	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R8856	VRS-CY1JF103JY	X	10k	1/16W	M-Ox.	AA
R8857	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R8858	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R8859	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R8860	VRD-RA2BE101JY	X	100	1/8W	Carbon	AA
R8861	VRS-CY1JF471JY	X	470	1/16W	M-Ox.	AA
R8865	VRS-CY1JF473JY	X	47k	1/16W	M-Ox.	AA

### SWITCHES

S2501	QSW-K0003AJZZ+	X	Push button switch	AB
S2502	QSW-K0003AJZZ+	X	Push button switch	AB
S2503	QSW-K0003AJZZ+	X	Push button switch	AB
S2504	QSW-K0003AJZZ+	X	Push button switch	AB
S2505	QSW-K0003AJZZ+	X	Push button switch	AB
S2506	QSW-K0003AJZZ+	X	Push button switch	AB

### Ferrite Bead

FB601	RBLN-0047CEZZY	X	Ferrite Bead	AB
FB705	RBLN-0047CEZZY	X	Ferrite Bead	AB
FB707	RBLN-0020CEZZ+	X	Ferrite Bead	AB
FB1103	RBLN-0210TAZZY	X	Ferrite Bead	AA
FB1104	RBLN-0210TAZZY	X	Ferrite Bead	AA

### MISCELLANEOUS PARTS

△ ACC701	QACCD A012WJPZ	X	AC Cord	AL
△ F701	QFS-B4023CEZZ	X	FUSE - 4A 125V	AC
FH701	QFSHD1013CEZZ+	X	FUSE CLIP	AA
FH702	QFSHD1014CEZZ+	X	FUSE CLIP	AA
J904	QJAKGA033WJZZ	X	Jack, Front AV IN JACK	AE
J905	QTANJA108WJQZ	X	Jack Terminal	AG
J921	QSOCD0456CEZZ	X	Socket, S-Video	AD
P361	QPLGN0461CEZZA	X	plug, 4pin(S1-4)	AB
P402	QPLGN0661CEZZA	X	plug, 6pin	AB
P605	QPLGN0160FJZZ	X	plug 5pin(K1-5)	AC
P622	QPLGN0461CEZZA	X	plug, 4pin(S1-4)	AB
P651	QPLGN0361CEZZA	X	plug, 3pin (TP651-3)	AB
P702	QPLGN0269GEZZ	X	plug 2pin(P1-2)	AB
P703	QPLGN0260CEZZ	X	plug 2pin(M1-2)	AB
P2401	QPLGN0661CEZZA	X	plug, 6pin	AB
△ RDA303	PRDARA422WJFW	X	Heat Sink	AF
△ RDA501	PRDARA421WJFW	X	Heat Sink	AG
RDA601	PRDARA041WJFW	X	Heat Sink	AG
RDA671	PRDARA057WJFW	X	Heat Sink	AE
RDA701	PRDARA119WJFW	X	Heat Sink	AF
RMC2601	PRMCUA022WJZZ	X	R/C Receiver	AE
△ RY701	RRLYJ0081CEZZ	X	Relay	AE
TP701	QLUGP0102PEZZ	X	Test point	AA
△ SG701	QSPGC0001GEZZY	X	Spark Gap	AE

Ref. No. Part No. ★ Description Code

## PWB-B: DUNTKB568WEA0 CRT UNIT

### TRANSISTORS

Q850	VS2SC3789//2E	X	2SC3789	AD
Q851	VS2SC3789//2E	X	2SC3789	AD
Q852	VS2SC3789//2E	X	2SC3789	AD
Q853	VS2SC3198-G-1+	X	2SC3198-G	AA
Q854	VS2SC3198-G-1+	X	2SC3198-G	AA
Q855	VS2SC3198-G-1+	X	2SC3198-G	AA
Q890	VS2SC3198-G-1+	X	2SC3198-G	AA
Q891	VS2SA1266-Y-1+	X	2SA1266(Y)	AA
Q894	VS2SA1266-Y-1+	X	2SA1266(Y)	AA

### COILS

L852	VP-MK820K0000+	X	Peaking, 82mH	AB
L853	VP-MK820K0000+	X	Peaking, 82mH	AB
L854	VP-MK820K0000+	X	Peaking, 82mH	AB

### DIODES

D891	VHDHSS4148+-1Y	X	Diode	AA
D892	VHDHSS4148+-1Y	X	Diode	AA
D893	VHDHSS4148+-1Y	X	Diode	AA
D894	VHDHSS4148+-1Y	X	Diode	AA
D895	VHDHSS4148+-1Y	X	Diode	AA
D897	VHDHSS4148+-1Y	X	Diode	AA
D899	VHDHSS4148+-1Y	X	Diode	AA

### CAPACITORS

[EL. ... Electrolytic, M-Poly. ... Metalized Polypro Film]

C850	VCKYPA1HF103Z+	X	0.01 50V	Ceramic	AA
C851	VCEA0A1CW107M+	X	100 16V	EL.	AA
C852	VCKYPA1HB102K+	X	1000p 50V	Ceramic	AA
C876	VCCSPA1HL391J+	X	390p 50V	Ceramic	AA
C877	VCCSPA1HL331J+	X	330p 50V	Ceramic	AA
C878	VCCSPA1HL391J+	X	390p 50V	Ceramic	AA
C879	VCEA0A1EW476M+	X	47 25V	EL.	AA
C880	RC-KZ018JCEZZ	X	0.01 AC250V	Ceramic	AB
C890	VCEA0A1CW227M+	X	220 16V	EL.	AB
C893	VCEA0A1HW106M+	X	10 50V	EL.	AA
C896	VCEA0A2EW106M+	X	10 250V	EL.	AC

### RESISTORS

[M-Ox. ... Metal Oxide, M-Film ... Metal Film]

R849	VRD-RA2BE271JY	X	270 1/8W	Carbon	AA
R850	VRD-RA2BE470JY	X	47 1/8W	Carbon	AA
R851	VRD-RA2BE470JY	X	47 1/8W	Carbon	AA
R852	VRD-RA2BE470JY	X	47 1/8W	Carbon	AA
R854	VRD-RA2BE271JY	X	270 1/8W	Carbon	AA
R855	VRD-RA2BE271JY	X	270 1/8W	Carbon	AA
R856	VRD-RA2BE121JY	X	120 1/8W	Carbon	AA
R857	VRD-RA2BE121JY	X	120 1/8W	Carbon	AA
R858	VRD-RA2BE121JY	X	120 1/8W	Carbon	AA
R859	VRS-VV3AB393J	X	120 1/8W	Carbon	AA
R860	VRS-VV3LB123J	X	12k 3W	M-Ox.	AB
R861	VRS-VV3AB393J	X	120 1/8W	Carbon	AA
R862	VRS-VV3LB123J	X	12k 3W	M-Ox.	AB
R863	VRS-VV3AB393J	X	120 1/8W	Carbon	AA
R864	VRS-VV3LB123J	X	12k 3W	M-Ox.	AB
R865	VRD-RA2BE103JY	X	10k 1/8W	Carbon	AA
R868	VRD-RM2HD224JY	X	220k 1/2W	Carbon	AA
R870	VRD-RA2BE471JY	X	470 1/8W	Carbon	AA
R871	VRD-RA2BE471JY	X	470 1/8W	Carbon	AA
R872	VRD-RA2BE471JY	X	470 1/8W	Carbon	AA
R873	VRD-RA2BE681JY	X	1.5k 1/8W	Carbon	AA
R874	VRD-RA2BE681JY	X	1.5k 1/8W	Carbon	AA
R875	VRD-RA2BE681JY	X	1.5k 1/8W	Carbon	AA
R876	VRD-RA2BE121JY	X	120 1/8W	Carbon	AA
R877	VRD-RA2BE121JY	X	120 1/8W	Carbon	AA
R878	VRD-RA2BE121JY	X	120 1/8W	Carbon	AA
R879	VRD-RM2HD100JY	X	10 1/2W	Carbon	AA

Ref. No.	Part No.	★ Description	Code
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## PWB-B: DUNTKB568WEA0

### CRT UNIT

#### RESISTORS

*[M-Ox. ... Metal Oxide, M-Film ... Metal Film]*

R880	VRC-MA2HG332KY	X	3.3k	1/2W	Carbon	AB
R881	VRC-MA2HG332KY	X	3.3k	1/2W	Carbon	AB
R882	VRC-MA2HG332KY	X	3.3k	1/2W	Carbon	AB
R883	VRD-RA2BE221JY	X	220	1/8W	Carbon	AA
R884	VRD-RA2BE221JY	X	220	1/8W	Carbon	AA
R885	VRD-RA2BE221JY	X	220	1/8W	Carbon	AA
R886	VRD-RA2BE471JY	X	470	1/8W	Carbon	AA
R887	VRD-RA2BE471JY	X	470	1/8W	Carbon	AA
R888	VRD-RA2BE471JY	X	470	1/8W	Carbon	AA
R890	VRD-RA2BE562JY	X	5.6k	1/8W	Carbon	AA
R891	VRD-RA2BE102GY	X	1.0k	1/8W	Carbon	AA
R892	VRD-RA2BE331GY	X	330	1/8W	Carbon	AA
R894	VRD-RA2BE152JY	X	1.5k	1/8W	Carbon	AA
R895	VRD-RA2EE561JY	X	560	25W	Carbon	AA
R899	VRD-RA2BE222JY	X	2.2k	1/8W	Carbon	AA

#### MISCELLANEOUS PARTS

P860	QPLGN0441CEZZ	X	Plug 4Pin(RAV)	AB
P880	QPLGN0641CEZZ	X	Plug (6 Pins)	AB
SC850	QSOCV0937CEZZ	X	CRT Socket	AE

## PWB-D: DUNTKB572WEA1

### 2-LINE Y/C UNIT

#### INTEGRATED CIRCUIT

IC1401	VHITC90A45F-1Y	X	TC90A45AF	AM
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#### TRANSISTORS

Q1401	VS2SD601AR/-1Y	X	2SD601AR	AB
Q1402	VS2SD601AR/-1Y	X	2SD601AR	AB
Q1404	VS2SB709AR/-1Y	X	2SB709AR	AB

#### COILS

L1401	VP-XF100K0000Y	X	Peaking,10mH	AA
L1402	VP-XF100K0000Y	X	Peaking,10mH	AA
L1403	VP-XF100K0000Y	X	Peaking,10mH	AA
L1404	VP-XF220K0000Y	X	Peaking,22mH	AA
L1405	VP-XF220K0000Y	X	Peaking,22mH	AA
L1408	VP-XF100K0000Y	X	Peaking,10mH	AA

#### CAPACITORS

*[EL. ... Electrolytic, M-Poly. ... Metalized Polypro Film]*

C1401	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1402	VCEA0A1AW227M+	X	220	10V	EL.	AB
C1404	VCCCCY1HH181JY	X	180p	50V	Ceramic	AA
C1405	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1406	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1407	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1408	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1409	VCEA0A1CW476M+	X	47	16V	EL.	AA
C1410	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1411	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1412	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1413	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1414	VCE9GA1HW105M+	X	1	50V	EL.	AB
C1415	VCCCCY1HH120JY	X	12p	50V	Ceramic	AA
C1416	VCCCCY1HH3R0CY	X	3p	50V	Ceramic	AA
C1417	VCCCCY1HH270JY	X	27p	50V	Ceramic	AA
C1418	VCCCCY1HH120JY	X	12p	50V	Ceramic	AA
C1419	VCCCCY1HH3R0CY	X	3p	50V	Ceramic	AA
C1420	VCCCCY1HH270JY	X	27p	50V	Ceramic	AA
C1423	VCFYFA1HA474J+	X	0.47	50V	Mylar	AB
C1424	VCEA0A1CW107M+	X	100	16V	EL.	AA
C1429	VCEA0A1CW107M+	X	100	16V	EL.	AA
C1430	VCKYCY1CB104KY	X	0.1	16V	Ceramic	AA

Ref. No.	Part No.	★ Description	Code
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#### CAPACITORS

*[EL. ... Electrolytic, M-Poly. ... Metalized Polypro Film]*

C1431	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA
C1432	VCKYCY1HB103KY	X	0.01	50V	Ceramic	AA

#### RESISTORS

*[M-Ox. ... Metal Oxide, M-Film ... Metal Film]*

R1401	VRS-CY1JF821JY	X	820	1/16W	M-Ox.	AA
R1402	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R1403	VRS-CY1JF361JY	X	360	1/16W	M-Ox.	AA
R1415	VRS-CY1JF391JY	X	390	1/16W	M-Ox.	AA
R1416	VRS-CY1JF102JY	X	1k	1/16W	M-Ox.	AA
R1417	VRS-CY1JF152JY	X	1.5k	1/16W	M-Ox.	AA
R1421	VRS-CY1JF152FY	X	1.5k	1/16W	M-Ox.	AA
R1423	VRS-CY1JF102FY	X	1k	1/16W	M-Ox.	AA
R1427	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R1428	VRD-RA2BE332JY	X	3.3k	1/8W	Carbon	AA
R1429	VRS-CY1JF000JY	X	00	1/16W	M-Ox.	AA
R1430	VRS-CY1JF151JY	X	150	1/16W	M-Ox.	AA

#### MISCELLANEOUS PARTS

P1401	QPLGZ0810CEZZ	X	plug 32"	AD
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Ref. No.	Part No.	★ Description	Code
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## MISCELLANEOUS PARTS

VSP9050PB35WA	X	Speaker (L)	AH
VSP9050PB35WA	X	Speaker (R)	AH
QCNW-0136GJZZ	X	WIRE (SPEAKER)	AE
QCNW-B018WJZZ	X	WIRE (N)	AD
QCNW-B126WJZZ	X	WIRE (CJ)	AD

## SUPPLIED ACCESSORIES

RRMCGA536WJSA	X	Infrared Remote Control Unit	AP
TINS-D135WJZZ	X	Operation Manual	AG
TGAN-A216WJN1	X	Guarantee Card	AC

Ref. No.	Part No.	★ Description	Code
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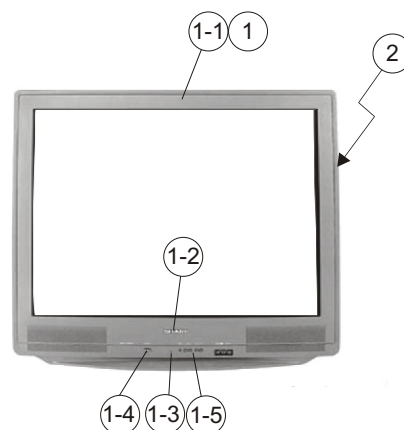
## PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKCD492WJZZ	X	Packing Case	AW
SPAKP0109GJZZ	X	Wrapping Sheet	AF
SPAKX0125GJZZ	X	Packing Foam	AS
SSAKA0101GJZZ	X	Plastic Bag	AC

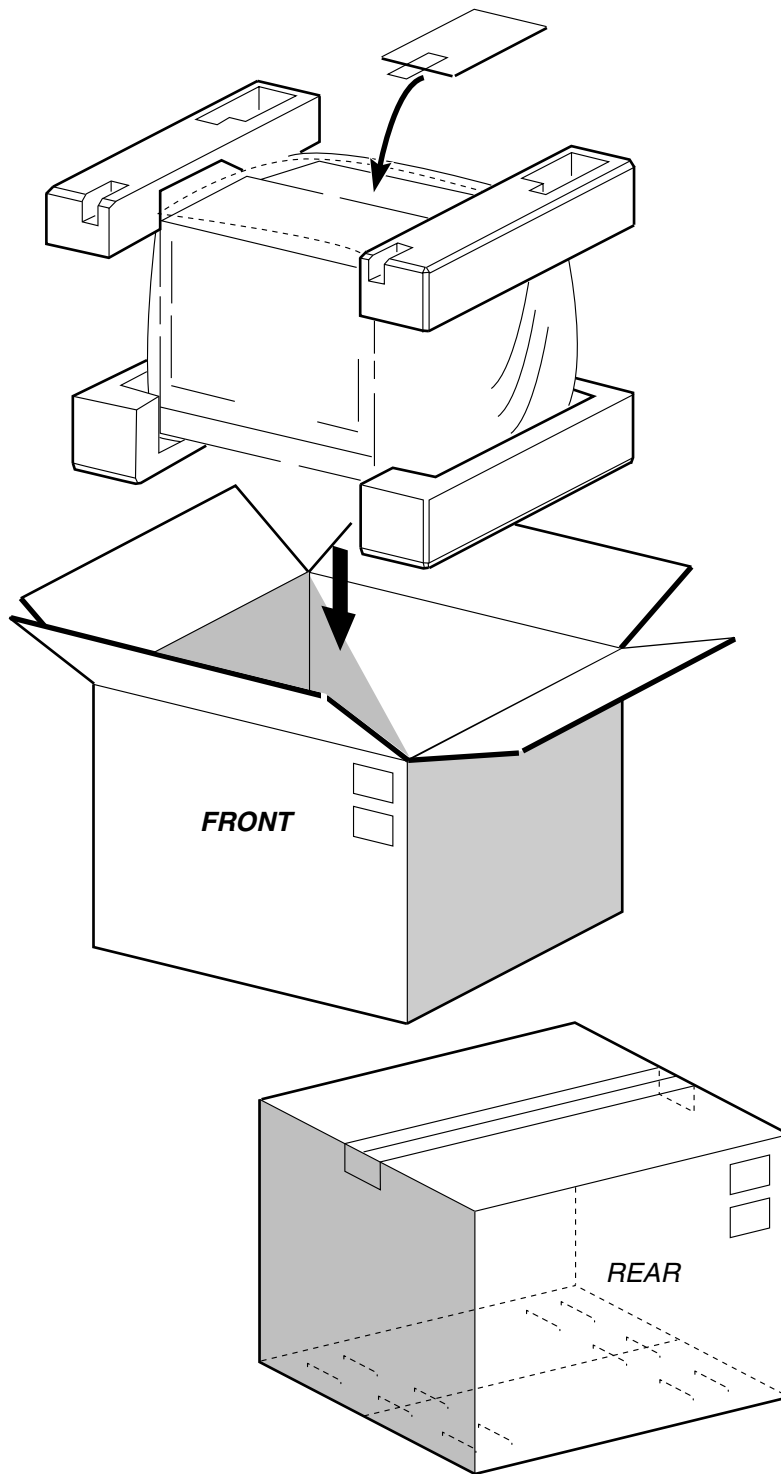
## CABINET PARTS

1	CCABAB575WEH2	X	Front Cabinet Assembly	BL
1-1	Not Available	—	Front Cabinet	—
1-2	HBDGB1009MESB	X	BADGE (SHARP PLASTIC)	AD
1-3	GCOVA0112GJKA	X	RC/LED Cover	AG
1-4	JBTN-0130GJKC	X	Button, Power	AH
1-5	JBTN-0131GJKC	X	Button, Menu, CH-Up/Down, VOL-Up/Down	AK
2	GCABBA835WJKA	X	Rear Cabinet	BC

## CABINET PARTS LOCATION



## PACKING OF THE SET





- M E M O -

[illegible]

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June. 2007  
Modify : SEMEX

Design and Production Information
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Design base : SEM
Production : SEMEX

J B

SHARP ELECTRONICA MEXICO S. A. DE C. V.  
Quality & Reliability Control Center  
Blvd. SHARP No. 3510 Parque Industrial Rosarito  
Playas de Rosarito, México B. C. 22710